SAMSUNG

Valuable
image in my hand

GX 1L User's Manual

Thank you for buying a Samsung Camera.
This manual will guide you through using the camera, including capturing images, downloading images and using the appication software.
Please read this manual carefully before using your new camera.

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ENGLISH

For Safe Use of Your Camera

Thank you for buying a Samsung Digital Camera.

- Prior to using this camera, please read the user manual thoroughly.
- When you require After Sales service, please bring the camera and the cause of the camera malfunction (such as battery, Memory card etc.) to the A/S centre.
- Please check that the camera is operating properly prior to when you intend to use it (e.g. for a trip or an important event) to avoid disappointment. Samsung camera takes no responsibility for any loss or damages that may result from camera malfunction.
- Keep the manual in a safe place.

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* All brand and product names appearing in this manual are registered trademarks of their respective companies.

This manual contains instructions on using this camera that will help you to use this camera safely and correctly. This will help prevent danger and injury to others.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in a minor or moderate injury.

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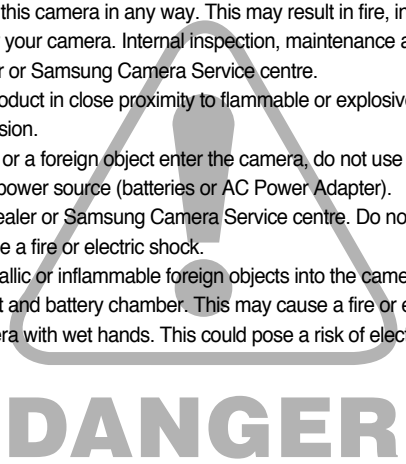
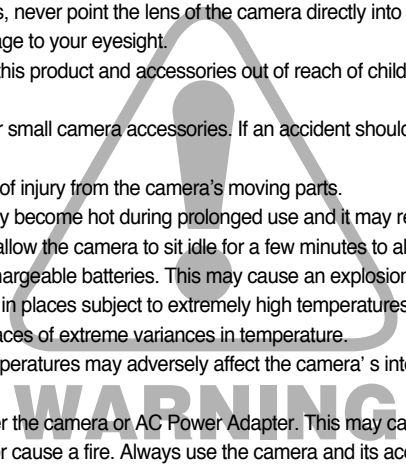
Danger

- Do not attempt to modify this camera in any way. This may result in fire, injury, electric shock or severe damage to you or your camera. Internal inspection, maintenance and repairs should be carried out by your dealer or Samsung Camera Service centre.
- Please do not use this product in close proximity to flammable or explosive gases, as this could increase the risk of explosion.
- Should any form of liquid or a foreign object enter the camera, do not use it. Switch off the camera, and then disconnect the power source (batteries or AC Power Adapter).
  You must contact your dealer or Samsung Camera Service centre. Do not continue to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. the memory card slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands. This could pose a risk of electric shock.



Warning

- Do not use the flash in close proximity to people or animals. Positioning the flash too close to your subject's eyes, may cause eyesight damage.
- When taking photographs, never point the lens of the camera directly into very strong light. This may result in permanent damage to your eyesight.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
  - Swallowing batteries or small camera accessories. If an accident should occur, please consult a doctor immediately.
  - There is the possibility of injury from the camera's moving parts.
- Batteries and camera may become hot during prolonged use and it may result in camera malfunction. Should this be the case, allow the camera to sit idle for a few minutes to allow it time to cool.
- Do not recharge non rechargeable batteries. This may cause an explosion.
- Do not leave this camera in places subject to extremely high temperatures, such as a sealed vehicle, direct sunlight or other places of extreme variances in temperature.
  Exposure to extreme temperatures may adversely affect the camera' s internal components and could cause a fire.
- When in use, do not cover the camera or AC Power Adapter. This may cause heat to build up and distort the camera body or cause a fire. Always use the camera and its accessories in a well-ventilated area.



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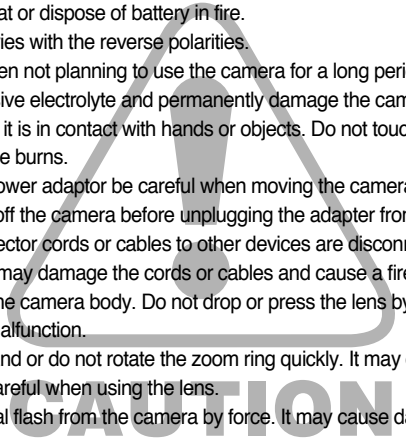
Caution

- Leaking, overheating, or burst batteries could result in fire or injury.
  - Use batteries with the correct specification for the camera.
  - Do not short circuit, heat or dispose of battery in fire.
  - Do not insert the batteries with the reverse polarities.
- Remove the batteries when not planning to use the camera for a long period of time.
  Batteries may leak corrosive electrolyte and permanently damage the camera's components.
- Do not fire the flash while it is in contact with hands or objects. Do not touch the flash after using it continuously. It may cause burns.
- If you are using the AC power adaptor be careful when moving the camera.
  After use, always switch off the camera before unplugging the adapter from the wall socket. Then make sure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or electric shock.
- The Lens is attached to the camera body. Do not drop or press the lens by force.
  It may cause a camera malfunction.
- Do not pull the lens by hand or do not rotate the zoom ring quickly. It may cause a camera malfunction. Please be careful when using the lens.
- Do not extract the external flash from the camera by force. It may cause damage to the top of the camera.



PRECAUTIONS FOR BATTERY USAGE

- Only use specified batteries with this camera. Use of other batteries can cause overheating or explosion.
- Replace the batteries at the same time. Do not mix battery brands, type or an old battery with a new one. It may cause explosion or overheating.
- The battery should be inserted correctly with regard to polarity (+ and -) marked on the battery and the camera.
- AA lithium batteries, AA alkaline batteries and CR-V3 are not rechargeable. Do not disassemble the battery. Recharging and disassembling can cause explosion or overheating.

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Composition of the Operating Manual

This operating manual contains the following chapters.

1. Before Using Your Camera

Explains camera characteristics, accessories and the names of various parts.

2. Getting Started

Explains your first steps from purchasing the camera to taking pictures. Be sure to read it and follow the instructions.

3. Basic Operations

Explains the procedures for taking, playing back, and printing still pictures.
Read it to learn all of the basic operations about capturing, playing back, and printing.

4. Menu Reference

Explains the functions of GX-1L by buttons and menus.

5. Function Reference

Introduces functions to further enhance your GX-1L experience.

6. Software information

Explains software installation and how to use the program.

7. Appendix

Explains troubleshooting, introduces optional accessories and provides various resources.

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1 Before Using Your Camera

Check the package contents and names of working parts before use.

GX-1L Camera Characteristics 10
Checking the Contents of the Package 11
Names of Working Parts 12

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GX-1L Camera Characteristics

- Features a 23.5x15.7 mm CCD with 6.1 million effective pixels for high precision and a wide dynamic range.
- Uses CR-V3, AA lithium batteries, rechargeable AA Ni-MH batteries or AA alkaline batteries.
- Features a Digital Preview function for checking the image to ensure that the desired result is achieved.
- Features a large 2.5-inch LCD monitor with 210,000 pixels and a brightness adjusting function for high-precision viewing performance.
- Concepts of Universal Design have been implemented to various parts of the camera.
  The large, high-resolution LCD monitor and easy-to-use menus make the camera easier to operate.

The captured area (view angle) will differ between the GX-1L and 35 mm SLR cameras even if the same lens is used because the format size for 35 mm film and CCD are different.
Sizes for 35 mm film and CCD

35 mm film : 36x24 mm
GX-1L CCD : 23.5x15.7 mm

Angles of view being equal, the focal length of a lens used with a 35 mm camera must be approximately 1.5 times longer than that of GX-1L. To obtain a focal length framing the same area, divide the focal length of the 35 mm lens by 1.5.

Example) To capture the same image as a 150 mm lens attached to a 35 mm camera
150÷1.5=100
Use a 100 mm lens with the GX-1L.

Inversely, multiply the focal length of the lens used with GX-1L by 1.5 to determine the focal length for 35 mm cameras.

Example) If 300 mm lens is used with GX-1L
300x1.5=450
Focal length is equivalent to 450 mm lens on a 35 mm camera.

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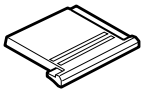
Checking the Contents of the Package

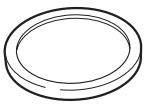
The following accessories are packaged with your camera.
Check that all accessories are included.



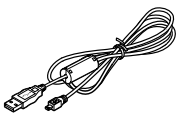
Hot shoe cover
(Installed on camera)

Eyecup
(Installed on camera)

Viewfinder cap

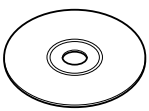


Body mount cover
(Installed on camera)



USB cable

Video cable



Software (CD-ROM)

Strap

AA Alkaline batteries*
(four)

Operating Manual
(this manual)

* The batteries packaged with the camera are for checking the camera's functionality.

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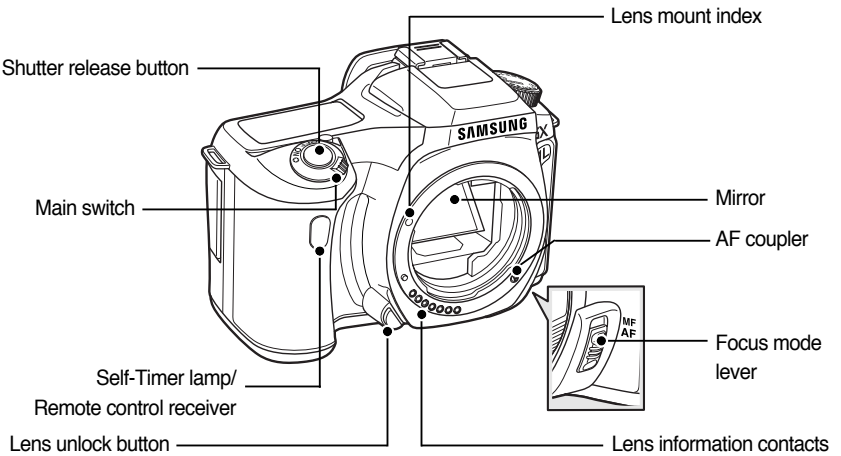
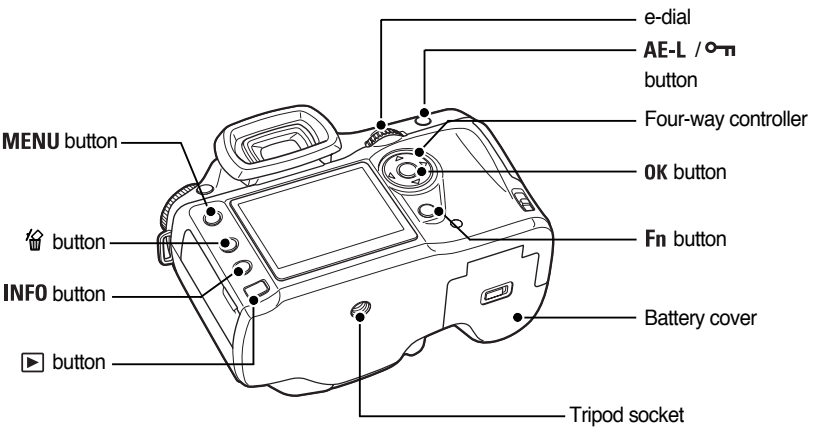
Names of Working Parts

Camera





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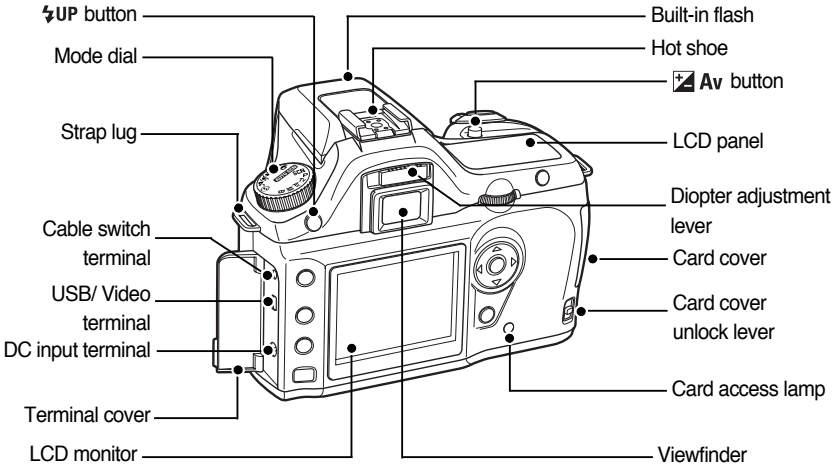
Names of Working Parts



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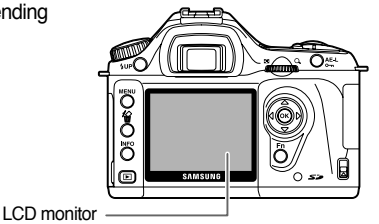
Names of Working Parts

LCD Monitor Indications

■ The following indicators appear on the LCD monitor depending on the status of the camera.

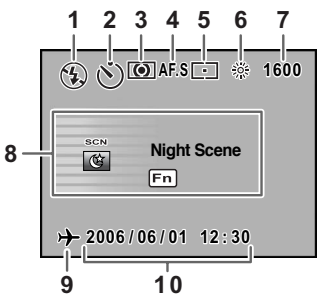


While Power is On or Operating Mode Dial

■ Guides appear on the LCD monitor for 3 seconds when powered on or setting dial mode.

INFORMATION

● Select [Off] for [Guide display] in [Set-up] to not show indicators. (p.165)



1. Flash mode (Active mode appears) (p.49)
2. Drive mode (p.102)
3. AE metering (p.129)
4. AF mode (p.118)
5. Focusing area (p.122)
6. White balance (p.112)
7. Sensitivity (p.115)
8. Shooting mode, Scene mode (p.104)
9. World time warning display (p.162)
10. Date and time (p.161)

* Indicators 3,5,6 and 7 only appear when the setting other than the default setting is selected. 9 only appears when World Time is On (☑).

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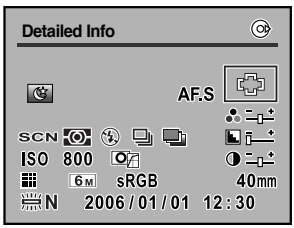
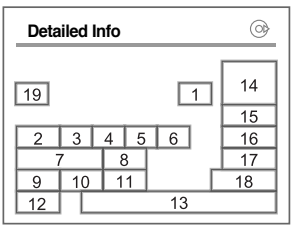
Names of Working Parts

Capture Mode

■ Press the **INFO** button in capture mode to display the capture function settings on the LCD monitor for 15 seconds.

● Detailed Information

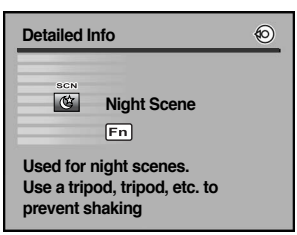




1. AF mode (p.118)
2. Mode dial position (p.104)
3. AE metering (p.129)
4. Flash mode (p.49)
5. Drive mode (p.102)
6. Auto bracket (p.144)
7. ISO sensitivity (p.115)
8. Image tone (p.108)
9. Quality level (p.110)
10. Recorded pixels (p.109)
11. Color space (p.117)
12. White balance (p.112)
13. Date and time (p.161)
14. Focusing area (p.122)
15. Saturation (p.111)
16. Sharpness (p.111)
17. Contrast (p.111)
18. Lens focal length
19. SCN mode (Only displayed in Scene mode.)

● Explanation of Set Mode Dial

- Press the four-way controller (▶) to view explanation of set mode dial.



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Names of Working Parts

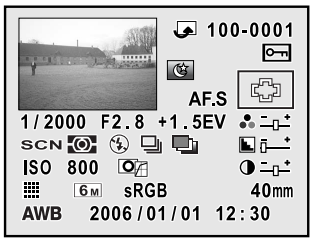
Playback Mode

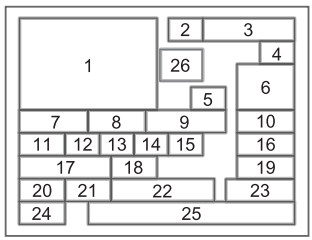
■ The camera switches screen displays every time you press **INFO** button during playback.

INFORMATION

● You can change the information initially displayed by pressing the ▶ button. (p.158)

● Detailed Information





1. Captured images
2. Rotate icon (p.64)
3. Image folder number and file number (p.167, 168)
4. Protect icon (p.77)
5. AF mode (p.121)
6. Focusing area (p.122)
7. Shutter speed (p.133)
8. Aperture (p.135)
9. EV compensation (p.140)
10. Saturation (p.111)
11. Shooting mode (p.104)
12. AE metering (p.129)
13. Flash mode (p.49)
14. Drive mode (p.102)
15. Auto bracket (p.144)
16. Sharpness (p.111)
17. ISO sensitivity (p.113)
18. Image tone (p.106)
19. Contrast (p.111)
20. Quality level (p.110)
21. Recorded pixels (p.109)
22. Color space (p.117)
23. Lens focal length
24. White balance (p.112)
25. Captured date and time (p.161)
26. SCN mode (Only displayed in Scene mode.)

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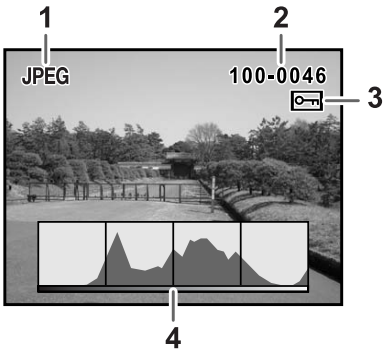
Names of Working Parts

● Histogram Display



1. Capture quality (Image file type)
2. Image folder number and file number (p.167, 168)
3. Protect icon (p.77)
4. Histogram

INFORMATION

- Areas where blooming occurred blink if [Bright Portion] warning is on.
- Press the four-way controller (▲▼) in the histogram display to move the Histogram display position up or down.

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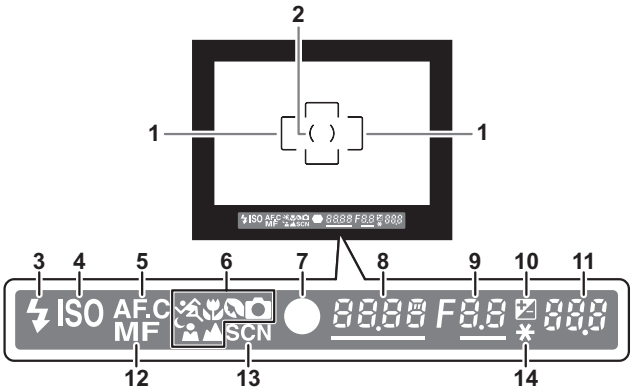
Names of Working Parts

Viewfinder Indications



1. Autofocus frame (p.37)
2. Spot metering frame (p.129)
3. Flash status (p.49)
   Appears when flash is available and blinks when flash is recommended but not set.
4. ISO sensitivity warning
   Appears when warning value is exceeded.
5. Continuous mode
   Appears when [AF Mode] in the [Rec. Mode] is set to AF.C (Continuous mode).
6. Auto Scene mode icon (p.45)
   Icon for Auto Scene mode in use appears.
   Night Scene Portrait, Moving Object, Macro, Landscape, Portrait, mode in AUTO SCN
7. Focus indicator (p.42)
   Appears when image is focused.
8. Shutter speed (p.133)
   Shutter speed when capturing or adjusting (underlined when shutter speed can be adjusted with e-dial).
9. Aperture (p.135)
   Aperture when capturing or adjusting (underlined when aperture can be adjusted with e-dial).
10. EV compensation (p.140)
    Appears when EV compensation is available or in use.
    Blinks slowly when compensating flash output.
    Blinks quickly when compensating exposure and flash output.
    Adjusted value appears where number of recordable images is shown.

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11. Number of recordable images/ EV compensation
    Show the number of recordable images with current quality and recorded pixel setting.
    Show the number of continuous shooting recordable images. (p.100)
    EV compensation value appears when EV compensation is being adjusted. (p.132)
    The difference with the appropriate exposure value appears if exposure mode is **M** . (p.137)
12. Manual focus (p.125)
    Appears when focus mode is **MF** .
13. SCN mode icon
    Appears when taking pictures in SCN mode.
14. AE lock indicator (p.141)
    Appears during AE lock.

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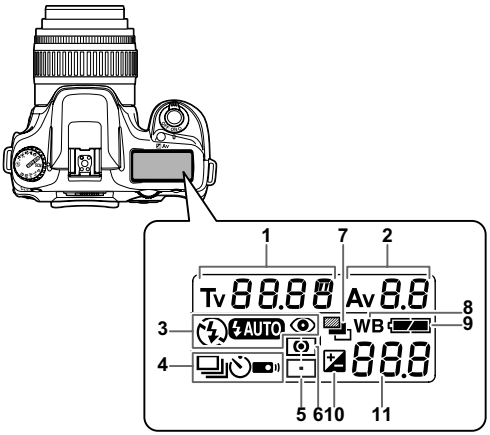
Names of Working Parts

LCD Panel Indications

■ The following information appears in the LCD panel on top of the camera.



1. Shutter speed (p.133)
2. Aperture (p.135)
3. Flash mode (p.49)
   - : Built-in flash is ready
     (when blinking, flash should be used)
   - : Flash off
   - : Auto discharge
   - : Red-eye reduction flash on
4. Drive mode (p.102)
   - : Single frame shooting
   - : Continuous shooting
   - : Self-Timer shooting
   - : Remote control shooting
5. Focusing area (p.122)
   - No indicator : Auto
   - : Spot
6. AE metering (p.129)
   - No indicator : Multi-segment metering
   - : Center-weighted metering
   - : Spot metering
7. Auto bracketing (p.144)
8. White balance (p.112)
   (Not displayed when set to Auto)
9. Battery level (p.25)
10. EV compensation (p.140)
11. Number of recordable images/
    EV compensation value/ PC (Pb)
    (PC=Personal Computer (mass storage),
    Pb=PictBridge)

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2 Getting Started

This chapter explains your first steps from purchasing the camera to taking pictures. Be sure to read it and follow the instructions.

Attaching the Strap 22
Connecting to a Power Source 23
Inserting/ Removing the SD Memory Card 27
Turning the Camera On and Off 30
Initial Settings 31
Attaching the Lens 35
Adjusting the Viewfinder Diopter 37

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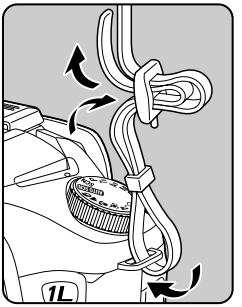
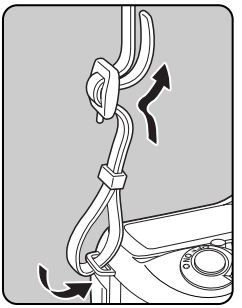
Attaching the Strap

1. Pass the end of the strap through the strap lug, then secure on the inside of the clasp.



2. Pass the other end of the strap through the other strap lug on the camera, then secure on the inside of the clasp.



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Connecting to a Power Source

Inserting the Batteries

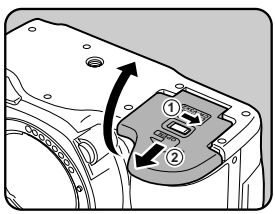
■ Insert batteries into the camera. Use two CR-V3 or four AA Ni-MH batteries, AA lithium batteries, or AA alkaline batteries.

This camera is packaged with AA alkaline batteries for checking the camera's functionality but some other kinds of batteries are also compatible. Refer to "Batteries" (p.24) for details on compatible batteries and when to use them.

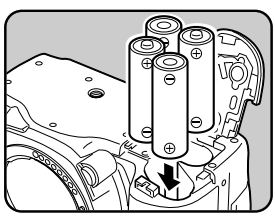
INFORMATION

- CR-V3, AA lithium batteries and AA alkaline batteries are not rechargeable.
- Do not open the battery cover or remove the batteries while the power is on.
- Remove the batteries when you will not use the camera for a long while. The batteries may leak.
- If the date and time settings have been reset when you insert new batteries after a long while, follow the procedure for "Setting the Date and Time".
- Insert batteries correctly. Batteries inserted incorrectly may cause a camera breakdown. Wipe the electrodes of the batteries before inserting.
- Replace all the batteries at the same time. Do not mix battery type, brands or an old battery with a new one.

1. Push and hold the battery cover unlock lever as shown in the illustration (①), and slide the battery cover toward the lens (②), and then flip open.



2. Insert the batteries according to the + / - indicators in the battery chamber.



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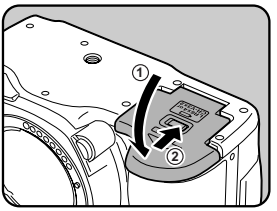
Connecting to a Power Source

3. Press down on the batteries with the battery cover (①) and slide it as shown in the illustration (②) to close.



INFORMATION

- Check the battery orientation if the camera does not operate properly after replacing the batteries.

Batteries

■ You can use four kinds of batteries with your camera. Battery performance differs by type. Please choose the type that best suits your purpose.

CR-V3	The CR-V3 is a long-life battery and is convenient when traveling.
AA Ni-MH rechargeable batteries	These are rechargeable and are economical.
AA lithium batteries	Recommended in cold climates.
AA alkaline batteries	Provided with the camera. These are easily obtainable when your usual batteries run out but they may not support all the camera functions under certain conditions. We do not recommend their use except in emergencies and checking the camera's functionality.

INFORMATION

- Oxyride batteries and rechargeable CR-V3 batteries may cause malfunctions due to their voltage characteristics so their use is not recommended.

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Connecting to a Power Source

Battery Level Indicator

■ You can confirm remaining battery level by checking the displayed on the LCD panel.

	lit	: Battery is full.
↓		
	lit	: Battery is running low.
↓		
	lit	: Battery is almost empty.
↓		
	blink	: The camera turns off after displaying a message.

Approximate Playback Time (new batteries)

Batteries	Normal recording	Flash photography		Playback time
		50% use	100% use	
CR-V3	1,500 minutes	900 minutes	650 minutes	950 minutes
AA rechargeable batteries (NiMH)	800 minutes	540 minutes	400 minutes	520 minutes
AA Alkaline Batteries	310 minutes	200 minutes	130 minutes	490 minutes

■ The still picture storage capacity is based on measuring conditions in accordance with CIPA standards and the playback time is based on SAMSUNG measuring conditions. Some deviation from the above figures may occur in actual use depending on shooting mode and shooting conditions.

INFORMATION

- Battery performance temporarily decreases as the temperature decreases. When using the camera in cold climates, have extra batteries on hand and keep them warm in your pocket. Battery performance will return to normal when returned to room temperature.
- AA alkaline batteries may not support all the camera functions. We do not recommend their use except in emergencies and checking the camera's functionality.
- Have extra batteries ready when traveling overseas, taking pictures in cold climates, or when you will be taking a lot of pictures.

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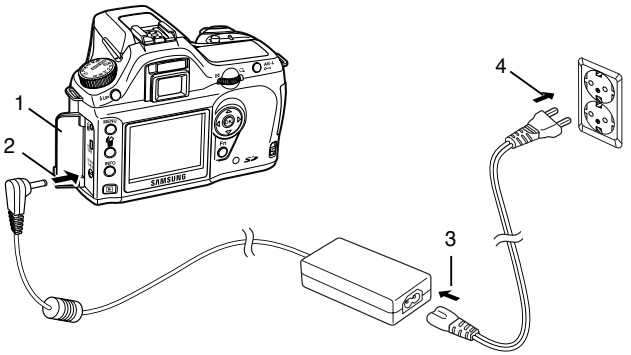
Connecting to a Power Source

Using the AC Adapter (Optional)

■ AC adapter (D-AC10, optional) for PENTAX DSLR camera can be used with SAMSUNG DSLR camera.



■ We recommend using the AC adapter D-AC10 (optional) when using the LCD monitor for a long time or when connecting to your PC.

1. Make sure the camera is turned off before opening the terminal cover.
2. Connect the DC terminal on the AC adapter to the DC input terminal on the camera.
3. Connect the AC plug cord to the AC adapter.
4. Plug the AC cord into the power outlet.

INFORMATION

- Make sure the camera is turned off before connecting or disconnecting the AC adapter.
- Make sure connections are secure between the camera, AC adapter, AC plug cord terminal and the power outlet. SD Memory Card and data will be corrupted if disconnected while camera is recording or reading data.
- Be sure to read the AC adapter D-AC10 operating manual when using the AC adapter.
- The rechargeable batteries in your camera will not charge when connected to the AC adapter.

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Using the memory card

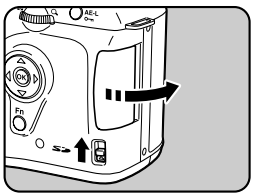
Inserting/ Removing the SD Memory Card

■ Captured images are recorded on the SD Memory Card. Make sure the camera is turned off before inserting or removing the SD Memory Card (market product).

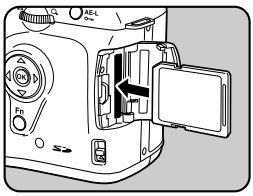
INFORMATION

- Do not remove the SD Memory Card while card access lamp is lit.
- Format new SD Memory Card. Also format SD Memory Card used with other cameras. Refer to “Formatting the SD Memory Card” (p.160) for details on formatting.

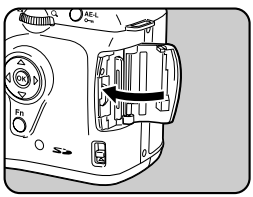
1. Press the card cover unlock lever in the indicated direction. Card cover opens.



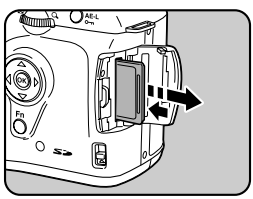
2. Insert the card all the way with the SD Memory Card label toward the LCD monitor.



3. Close the card cover.



4. Push the SD Memory Card in once to remove.



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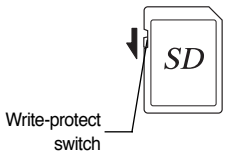
Using the memory card

Precautions When Using the SD Memory Card



- The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK protects the existing data by prohibiting recording of new data, deletion of existing data or formatting of the card.
- Care should be taken when removing the SD Memory Card immediately after using the camera because the card may be hot.
- Do not remove the SD Memory Card or turn the camera off while data is being saved to the card, images are being played back, or the camera is connected to a computer with the USB cable. This may cause the data to be lost or the card to be damaged.
- Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperatures.
- Do not remove the SD Memory Card during formatting. The card may be damaged beyond use.
- Data on the SD Memory Card may be deleted in the following circumstances. Samsung Camera does not accept any liability for data that is deleted if
  (1) the SD Memory Card is mishandled by the user.
  (2) the SD Memory Card is exposed to static electricity or electrical interference.
  (3) the card has not been used for a long time.
  (4) the card is ejected or the battery is removed while the data on the card is being recorded or accessed.
- The SD Memory Card has a limited service life. If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer.
- Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
- Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.
- For information on compatible SD Memory Card, visit the Samsung Camera website or contact your nearest Samsung Camera customer service center.
- Format new SD Memory Cards. Also format SD Memory Card used with other cameras.
  ☞ Formatting the SD Memory Card (p.160)
- If you are going to discard, give away or sell your SD memory card you should ensure that the data on the card is completely deleted or the card itself is destroyed if it contains any personal or sensitive information. Please note that formatting the SD card will not necessarily delete the data so that it cannot be recovered using off the shelf data recovery software. There are off the shelf secure data deletion software programs available that will completely delete the data. In any case the data on your SD memory card should be managed at your own risk.

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Using the memory card

Recorded Pixels and Quality Level

■ Choose the number of pixels (size) and quality level (data compression rate) of pictures according to how you intend to use the pictures you have taken.
Pictures with larger recorded size or the more ⁘ are clearer when printed.
The number of pictures that can be taken (the number of pictures that can be recorded on an SD Memory Card) becomes less with larger file sizes.
The quality of the captured photo or printed picture depends on the quality level, exposure control, resolution of the printer and a variety of other factors so you do not need to select more than the required number of pixels. For example, to print in postcard size, 1.5M (1536 × 1024) is adequate.
Set the appropriate recorded size and quality level depending on purpose.

Choose the appropriate number of recorded pixels and quality level for images on the [Rec. Mode] menu.

☞ Setting the Recorded Pixels (p.109)
☞ Setting the Quality Level (p.110)

● Recorded Pixels, Quality Level and Approximate Image Storage Capacity

Recorded Pixels \ Quality Level		RAW	Best	Better	Good
6M	(3008x2008)	11	-	-	-
	(3008x2000)	-	35	70	117
4M	(2400x1600)	-	51	96	159
1.5M	(1536x1024)	-	105	171	267

- The above table shows the approximate image storage capacity and recording time when using a 128 MB SD Memory Card.
- The above figures may vary depending on the subject, shooting conditions, shooting mode and SD Memory Card, etc.

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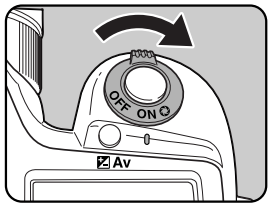
Turning the Camera On and Off

■ Move the main switch to [ON] position.
The camera will turn on.
Move the main switch to [OFF] position to turn off the camera.



INFORMATION

- Always turn the camera off when not in use.
- The power will automatically turn off when you do not perform any operations within a set period of time. (Default setting is 1 minute) (p.167)

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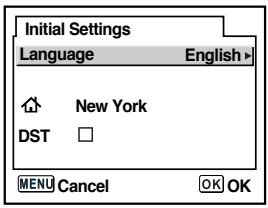
Initial Settings

■ The first time the camera is turned on after purchasing, the “Initial Settings” screen appears on the LCD monitor. Follow the procedure below to set the language displayed on the LCD monitor and the current date and time.
Once setting is done, these will not need to be set again when turning your camera on.

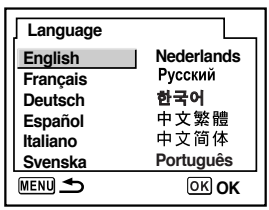
Setting the Display Language

■ You can choose the language in which the menus, error messages, etc. are displayed from the following: English, French, German, Spanish, Italian, Swedish, Dutch, Russian, Korean, Chinese (traditional/ simplified) and Portuguese.

1. Press the four-way controller (▶).



2. Use the four-way controller (▲▼◀▶) to select your applicable language.
The default setting is English.



3. Press the **OK** button.

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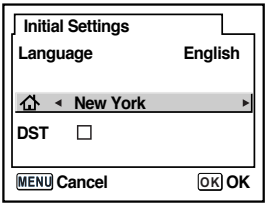
Initial Settings

4. Press the four-way controller (▼).
   The cursor moves to [⌂].

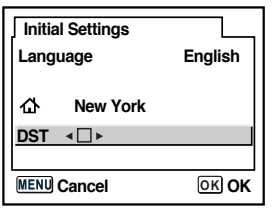
5. Press the four-way controller (◀▶) to select the city.



6. Press the four-way controller (▼).
   The cursor moves to DST (daylight saving time).

7. Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).

8. Press the **OK** button.
   The screen for setting the date and time will be displayed.



When an Incorrect Language is Set

Follow the procedure below to display the screen for setting the language, and go to Step 2 on p.31 to set the language again.

1. Turn the camera off and turn it on again.
2. Press the **MENU** button.
3. Press the four-way controller (▶) twice.
4. Press the four-way controller (▼) five times.
5. Press the four-way controller (▶) once.
   The screen for setting the language will be displayed.

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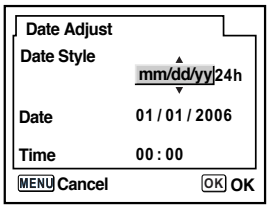
Initial Settings

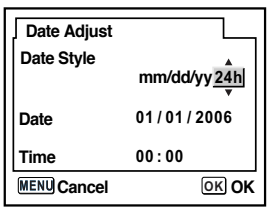
Setting the Date and Time

■ Set the current date and time and the display style.

1. Press the four-way controller (▶).
   The frame moves to [mm/dd/yy].
2. Use the four-way controller (▲▼) to choose the date style.



3. Press the four-way controller (▶).
   The frame moves to [24h].
4. Use the four-way controller (▲▼) to select 24h (24 hour display) or 12h (12-hour display).
5. Press the four-way controller (▶).
   The frame returns to [Date Style].
6. Press the four-way controller (▼).
   The frame moves to [Date].



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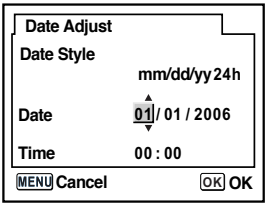
7. Press the four-way controller (▶).
   The frame moves to the month.



8. Use the four-way controller (▲▼) to set the month.
   Set the day and year in the same manner.
   Next, set the time.
   If you select [12h] in Step 4, the setting switches between am and pm depending on the time.

9. Press the **OK** button.
   The camera is ready to take pictures. If you set the date and time with the menu operations, the screen will return to the [Set-up] menu.
   Press the **OK** button again.

INFORMATION

- You can cancel the setting operation and switch to Capture mode during initial settings by pressing the **MENU** button. In this case, the Initial Settings screen will appear again the next time you turn the camera on.
- When you finish the settings and press the **OK** button, the camera clock is reset to 00 seconds. To set the exact time, press the **OK** button when the time signal (on the TV, radio, etc.) reaches 0 seconds.
- You can change the language and date and time settings with the menu operations. (p.161, p.165)

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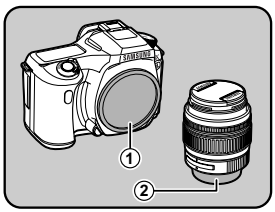
Attaching the Lens

■ Only D-XENON lens can be used with this camera.

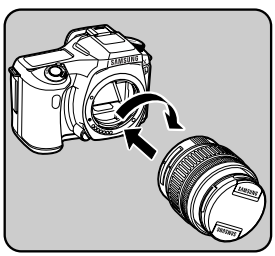
INFORMATION

● Turn the camera off before attaching or removing the lens to prevent unexpected lens movement.

1. Check that the camera is off.
2. Remove the body mount cover (①) and lens mount cover (②).
   Be sure to put the lens down with the lens mount side facing upward to damage.



3. Align the red dots on the camera and the lens, and secure by turning the lens clockwise until it clicks.
   After attaching, check that the lens is secure. Also check that the red dots of the lens are on top and attachment portion does not move sideways.



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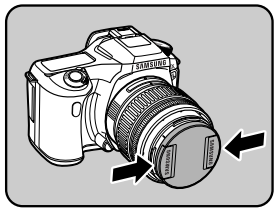
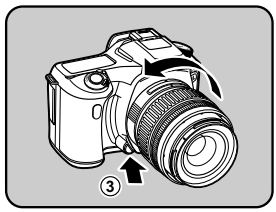
Attaching the Lens

4. Remove the front lens cap by pushing the indicated portions inward.



To detach the lens, hold down the lens unlock button (③) and turn the lens counterclockwise.



INFORMATION

- The body mount cover (①) is a cover to prevent damage during shipping.
- We assume no responsibility nor liability for accidents, damages and malfunctions resulting from the use of lenses made by other manufacturers.
- The camera body and lens mount incorporate lens information contacts and an AF coupler.
  Dirt, dust, or corrosion may damage the electrical system.
  Clean the contacts with a soft dry cloth.

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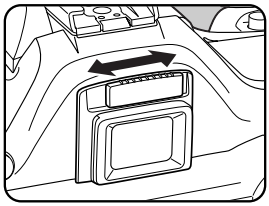
Adjusting the Viewfinder Diopter

■ Adjust the viewfinder to suit your eyesight.
If it is difficult to see the viewfinder image clearly, slide the diopter adjustment lever sideways.
You can slide the diopter from -2.5m^{-1} to +1.5m^{-1}.

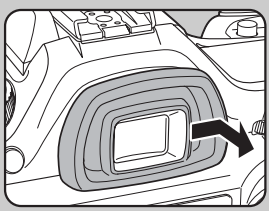
1. Look through the viewfinder and point the camera at a well-lit scene. Slide the diopter adjustment lever left or right.
Adjust the lever until the AF frame in the viewfinder is focused.



AF Frame

INFORMATION

- Eyecup is attached to the viewfinder portion when camera leaves the factory. Diopter adjustment is available with the eyecup attached. However, adjustment is easier with the eyecup removed as shown above. To remove the eyecup, pull one side of the Eyecup out and toward you as shown on the right.
- If it is difficult to see the viewfinder image clearly even if you set the diopter adjustment lever, use the diopter correction lens adapter (optional). However, the eyecup must be removed.



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MEMO

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3 Basic Operations

This chapter explains basic operations for shooting by setting mode dial to Scene mode(Auto Scene or Portrait mode - Flash OFF mode) and **SCN** mode to ensure success.
For information about advanced functions and settings for taking pictures, refer to chapter 4 and onward.

Basic Shooting Operation 40
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Using the Zoom Lens 48
Using the Built-in Flash 49
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Protecting Images 77
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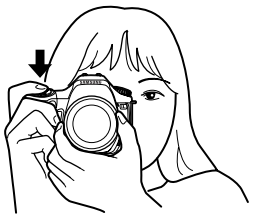
Basic Shooting Operation

Holding the Camera

■ How you hold the camera is important when taking pictures.
- Hold the camera firmly with both hands.
- Press the shutter release button gently when taking a picture.



[Horizontal position]

[Vertical position]

INFORMATION

- To reduce camera shake, support your body or the camera on a solid object such as a table, tree, or wall. Always use the shortest practical shutter speed for hand-held shots, especially when using Zoom or Telephoto lenses.
- Although there are individual differences among photographers, the slowest recommended shutter speed for a handheld camera is generally 1/(focal lengthx1.5). For example, it is 1/75 of a second for a focal length of 50 mm and 1/150 of a second for 100 mm. A tripod should be used for shutter speeds slower than this.
- When using a telephoto lens, a tripod that is heavier than the total weight of the camera and lens is recommended to avoid camera shake.

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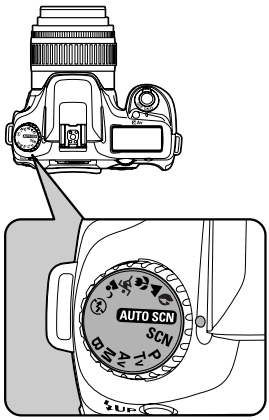
Basic Shooting Operation

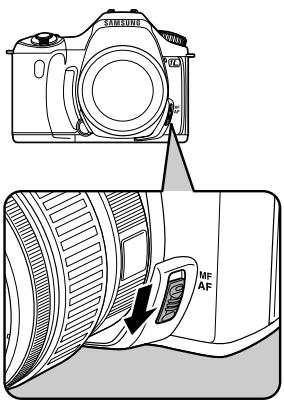
Letting the Camera Choose the Optimal Settings

■ How to set the camera so it will choose the optimum settings based on the subject lighting, distance and motion.

1. Set the mode dial to AUTO SCN .
   The camera will select the optimal capturing mode for the subject.
   - Selecting the Appropriate Capturing Mode for Scenes (p.45)



2. Set the focus mode lever to **AF** .
   Autofocus mode is set. (p.118)



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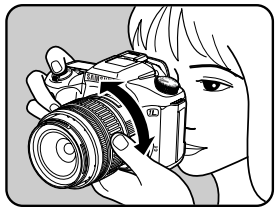
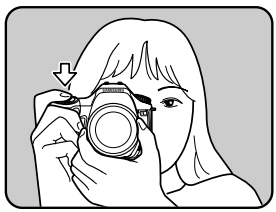
3. Turn the zoom ring to select the size of the subject.
   - Using the Zoom Lens (p.48)

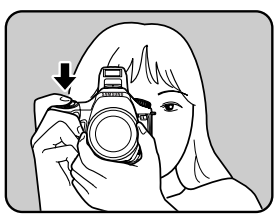


4. Position the subject inside the autofocus frame and press the shutter release button halfway.
   The autofocus system operates.
   The focus indicator ● appears in the viewfinder when the subject is in focus.
   The flash pops up automatically when necessary (manually lift the flash when Flash mode is not set to [Auto]).
   - Operating the shutter release button (p.43)
   - Hard-to-Autofocus Subjects (p.44)
   - Using the Built-in Flash (p.49)
   ※ You can preview the image in the LCD monitor and check the composition, exposure, and focus before taking the picture. (p.145)



Focus indicator

5. Press the shutter release button fully.
   The picture is taken.



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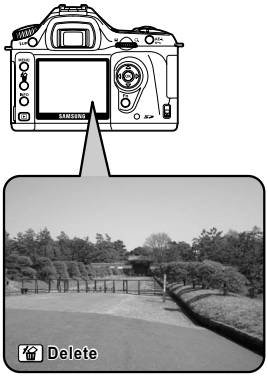
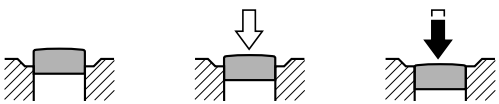
6. Review captured images on the LCD monitor.
   Image displays for 1 second on the LCD monitor after capturing (Instant Review.)
   You can delete the image during Instant Review by pressing the button.
   - Setting the Display Time (p.168)
   - Deleting Images (p.73)
   - Displaying Bright Portion Warning (p.169)
   - Histogram Display (p.169)



Operating the shutter release button

■ The shutter release button has two positions.



Not pressed | Pressed halfway (first position) | Pressed fully (second position)

Pressing it down halfway (first position) turns on the viewfinder and LCD panel indicators and the autofocus system operates. Pressing it fully (second position) takes the picture.

INFORMATION

- Press the shutter release button gently when taking a picture to prevent camera shake.
- Practice pressing the shutter release button halfway to learn where the first position is.
- The viewfinder indicators stay on while shutter release button is pressed. The indications stay on for about 10 seconds (default setting) after the button is released.

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Hard-to-Autofocus Subjects

■ The autofocus mechanism is not perfect. Focusing may be difficult when taking pictures under the following conditions ((a) to (f) below). These also apply to manual focusing using the focus indicator ● in the viewfinder. If the subject cannot be focused automatically, set the focus mode lever to **MF** and use the manual focus mode to focus on the subject with the aid of the matte field in the viewfinder.

(a) Extremely low-contrast subjects such as a white wall in the focus points range.
(b) Subjects which do not reflect much light within the focus points range.
(c) Fast moving objects.
(d) Strongly reflected light or strong backlighting (bright background).
(e) If vertical or horizontal line patterns appear within the focus points range.
(f) Multiple subjects in the foreground and background within the focus points range.

INFORMATION

● Subject may not be focused even when ● (focus indicator) is displayed when (f) above applies.

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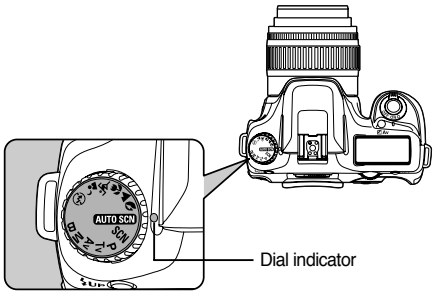
Selecting the Appropriate Capturing Mode for Scenes

■ The camera selects and set the optimum mode when AUTO SCN (Auto Scene) on the mode dial is set to the dial indicator.



Select (Portrait), (Landscape), (Macro), (Moving Object), (Night Scene Portrait), (Flash OFF), SCN (Scene) with the mode dial if desired image is not captured in Auto Scene mode. The modes are as follows.

AUTO SCN (Auto Scene)	Selects automatically from Normal, Portrait, Landscape, Macro, and Moving Object modes.
(Portrait)	Optimal for capturing portraits.
(Landscape)	Deepens the focus range, emphasizes contour and saturation of trees and the sky, and produces a bright image.
(Macro)	Lets you take vibrant pictures of flowers and other small subjects at short distances.
(Moving Object)	Lets you take sharp pictures of a quickly moving subject, such as at a sporting event.
(Night Scene Portrait)	Lets you capture people against a night view or dusk.
(Flash OFF)	The built-in flash is deactivated. Other settings are the same as the (Normal) mode in AUTO SCN .
SCN (Scene)	Lets you select from 8 shooting scenes depending on the shooting conditions.

INFORMATION

- For (Night Scene Portrait), the shutter speed becomes slower in dark places, even if the built-in flash is used. Use a tripod to avoid camera shake.

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Selecting the Appropriate Capturing Mode for Scenes

Selecting the Shooting SCN

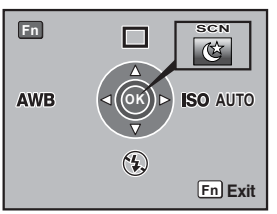
■ By setting the **SCN** (Scene) icon to the dial indicator, you can choose from the following 8 shooting scenes.

(Night Scene)	Used for night scenes. Use a tripod, etc. to prevent shaking.
(Surf & Snow)	For capturing images of dazzling backgrounds, such as snowy mountains.
(Text)	Lets you take clear pictures of text or writing.
(Sunset)	For capturing the sunrise or sunset in beautiful colors.
(Kids)	For capturing moving kids. Reproduces healthy and bright skin tone.
(Pet)	For capturing moving pets.
(Candlelight)	For capturing scenes in candlelight.
(Museum)	For capturing images in places where a flash is prohibited.

※ The flash is deactivated in (Night Scene), (Sunset), (Candlelight) and (Museum) modes. Use a tripod to avoid camera shake.

■ How to Select a Shooting Scene

1. Set the mode dial to **SCN** (Scene).
2. The Fn menu appears. The icon for the currently selected shooting scene appears in the Fn menu screen in **SCN** (Scene) mode.



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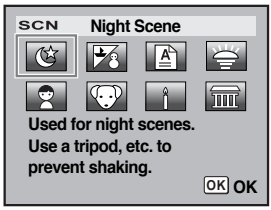
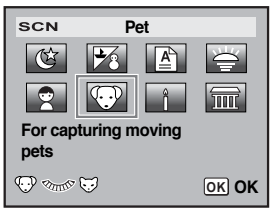
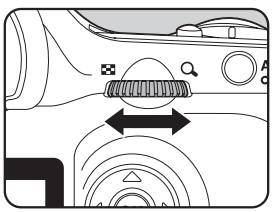
Selecting the Appropriate Capturing Mode for Scenes

3. Press the **OK** button. The mode palette appears.



4. Use the four-way controller (▲▼◀▶) to choose a **SCN** mode. If Pet mode is selected, you can turn the e-dial to choose a dog or a cat icon.The function is the same, regardless of which icon you choose.





5. Press the **OK** button.
   The screen returns to the Fn menu.

6. Press the **Fn** button.
   The camera is ready to take a picture.

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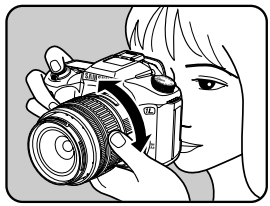
Using the Zoom Lens

■ Enlarge the subject (telephoto) or capture a wider area (wide angle) with a zoom lens. Adjust it to the desired size and take the picture.

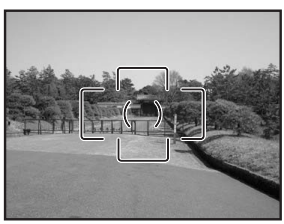
● Turn the zoom ring to the right or left.
Turn the zoom ring clockwise for telephoto and counterclockwise for wide angle.



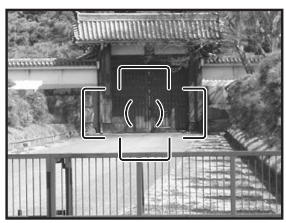
INFORMATION

- The smaller the number of the displayed focal length, the wider the angle. The larger the number, the more magnified the image appears.
- Power Zoom functions (Image Size Tracking, Zoom Clip, and Auto Zoom Effect) are not compatible with this camera.

Wide Angle



Telephoto



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Using the Built-in Flash

■ Use the following procedures to take a picture in low light or backlit conditions or when you want to manually use the built-in flash.
The built-in flash is optimum at about 0.7 m to 4 m from the subject.
Exposure will not be properly controlled and vignetting may occur when used at a distance closer than 0.7 m (this distance varies slightly depending on the lens being used and set sensitivity).

※ Compatibility of built-in flash and lens
Vignetting (darkening of the corners of the image due to a lack of light) may occur depending on the lens being used and the capture conditions. We recommend taking a test shot to confirm this.

INFORMATION

● When using the built-in flash, remove the lens hood before shooting.

AUTO Auto discharge	Camera automatically determines surrounding light and built-in flash pops up and discharges automatically when necessary (flash does not discharge even if it is popped up when not necessary).
Manual discharge	Discharges flash manually. Flash discharges when popped up, does not discharge when retracted.
Auto flash+Redeye reduct	Lights a red-eye reduction light before automatic flash.
Manual flash+Redeye reduct	Discharges flash manually. Lights a red-eye reduction light before manual flash.

INFORMATION

● Manual discharge mode (Flash ON) is used regardless of flash mode settings if the UP button is pressed to pop up the flash manually.

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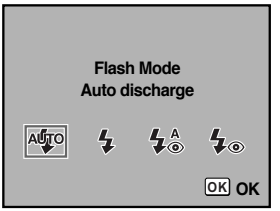
Using the Built-in Flash

Selecting Flash Mode

1. Press the **Fn** button.
   The Fn menu appears.

2. Press the four-way controller (▼).
   The flash options screen appears.



INFORMATION

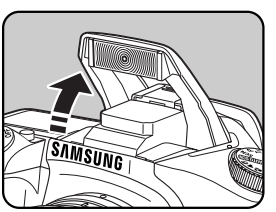
- When the mode dial is set to **P**, **Tv**, **Av**, **M** or **B**, and appear gray and cannot be selected.

3. Use the four-way controller (◀▶) to choose a flash mode.
4. Press the **OK** button. The screen returns to the Fn menu.
   The camera is ready to take a picture.
5. Press the **Fn** button. The camera is ready to take a picture.

Using Auto Discharge , (Automatic Flash Popup)

1. Set the mode dial to **SCN**, AUTO SCN , , or .
   ※ The flash is deactivated when (Night Scene), (Sunset), (Candlelight) or (Museum) is selected in **SCN** (Scene) mode.

2. Press the shutter release button halfway.
   The built-in flash pops up if necessary and begins charging.
   When the flash is fully charged, appears in the LCD panel and viewfinder. (p.14 ~ p.20)



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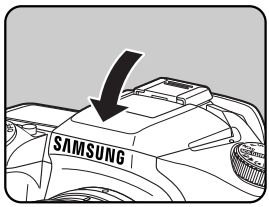
Using the Built-in Flash

INFORMATION

- Switch between Auto discharge mode and Manual discharge mode (Flash ON) by pressing the ϟUP button while the built-in flash is popped up.
  If Auto discharge is set, ϟAUTO appears on the LCD panel.

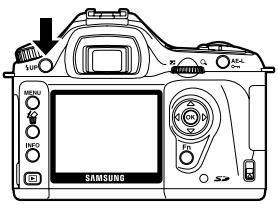
3. Press the shutter release button fully. The picture is taken.

4. Push down on the portion indicated in the illustration to retract the flash.



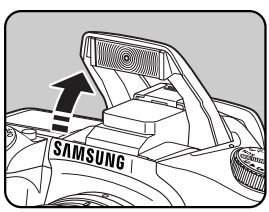
Using Manual Discharge (Flash ON) ϟ , ϟ◉

1. Press the ϟUP button.
   The built-in flash pops up and begins charging.
   Manual discharge mode (Flash ON) is used regardless of flash mode settings. When the flash is fully charged, ϟ appears in the LCD panel and viewfinder.



INFORMATION

- When Flash mode is set to AUTO or ϟA◉ and you pop up the built-in flash, you can switch between Auto discharge mode and Manual discharge mode (Flash ON) by pressing the ϟUP button under the following conditions.
  - Shooting mode is set to AUTO SCN , , , , , ,
  - SCN mode is set to , , , ,



2. Press the shutter release button fully. The flash discharges and the picture is taken.

3. Push the flash down to retract.

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Using the Built-in Flash

Using Red-eye Reduction Flash

■ "Red-eye" is the phenomenon where eyes look reddish in photographs taken in dark environments with a flash. This is caused by the reflection of the electronic flash in the retina of the eye.
Red-eye occurs because pupils are dilated in dark environments.
This phenomenon cannot be averted but the following measures can be used to combat it.

- Brighten the surroundings when shooting.
- Set to wide angle and shoot from closer if a zoom lens is in use.
- Use a flash that supports red-eye reduction.
- Position the flash as far away from the camera as possible when using an external flash.

The red-eye reduction function on this camera reduces red-eye by discharging the flash twice.
With the red-eye reduction function, the pre-flash is discharged just before the shutter is released. This reduces pupil dilation. The main flash is then discharged while the pupils are smaller, reducing the red-eye effect. To use the red-eye reduction function, set (Red-eye reduction auto flash) in Picture mode or (Red-eye reduction manual flash) in other modes for Flash mode.

Daylight-Sync Shooting

■ In daylight conditions, the flash will eliminate shadows when a portrait picture is taken with a person' s face cast in shadow. Use of the flash in this way is called Daylight-Sync Shooting. Flash is discharged manually when shooting with Daylight-Sync Shooting.

● Taking pictures (Auto Scene)

1. Confirm that the flash has popped up and the flash mode is set to (Manual discharge). (p.49)
2. Confirm that the flash is fully charged.
3. Take the picture.

※ The picture may be over-exposed if the background is too bright.

[Without Daylight-Sync]

[With Daylight-Sync]

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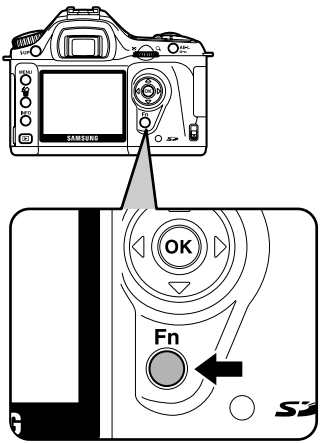
Other Shooting Modes

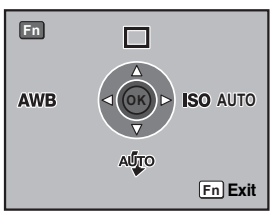
Continuous Shooting

■ Pictures can be taken continuously while the shutter release button is held down.

1. Press the **Fn** button.



The Fn menu appears.



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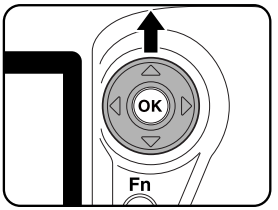
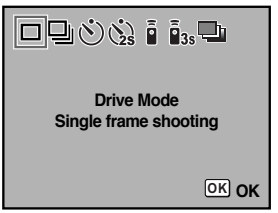
Other Shooting Modes

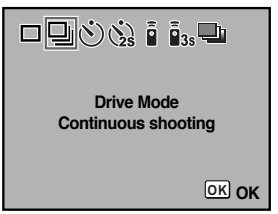
2. Press the four-way controller (▲).



The Drive Mode options screen appears.

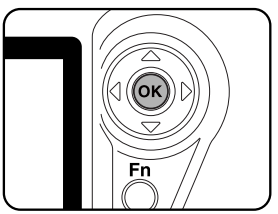


3. Use the four-way controller (◀▶) to select .



4. Press the **OK** button. The screen returns to the Fn menu.

5. Press the **Fn** button. The camera is ready to take a picture.



6. Press the shutter release button halfway.
The autofocus system operates. The focus indicator ● appears in the viewfinder when the subject is in focus.

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※ Set [No. cnt shtng rcd im] in [Recordable Image No.] of the [C Custom Setting] menu.
The number of continuously recordable images (buffer space) appears when shutter is pressed halfway. (p.100)

7. Press the shutter release button fully.
Pictures are taken continuously while the shutter release button is fully pressed. Take your finger off the shutter release button to stop.
Continuous shooting settings are retained when the power is turned off.
Display the Fn menu again and set to ▭ (Single frame shooting) to stop Continuous shooting.

INFORMATION

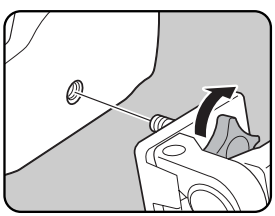
- The focus is adjusted each time the shutter is released if the focus mode is set to AF.S (Single mode). (p.121)
- Focusing is continuously active when the mode dial is set to P, Tv, Av or M and [AF Mode] in the [Rec. Mode] is set to AF.C (Continuous mode), when scene mode is set to (Moving Object) or SCN mode is set to (Kids) or (Pet).
Note that the shutter will release even if the focusing is not complete.
- The shutter cannot be released until charging is complete when using the built-in flash. Use a custom function to enable shutter release before the built-in flash is ready.

Self-Timer Shooting

■ This camera has two types of self-timers: and .

	Shutter will be released after about 12 seconds. Use this mode to include the photographer in the picture.
2s	A mirror pops up immediately after shutter release button is pressed. Shutter is released after about 2 seconds. Use this mode to avoid camera shake when the shutter release button is pressed.

1. Mount the camera to a tripod.



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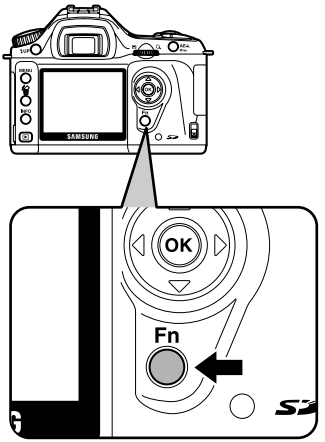
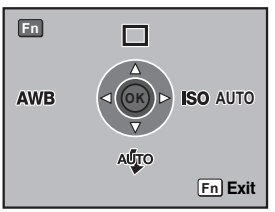
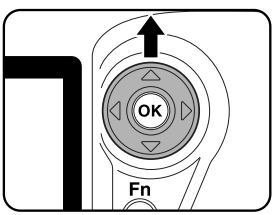
2. Press the **Fn** button.



The Fn menu appears.



3. Press the four-way controller (▲).



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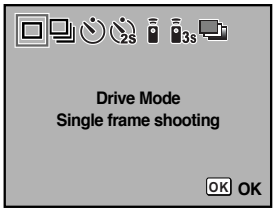
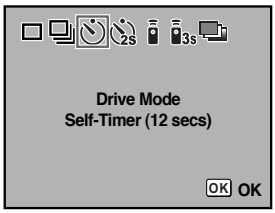
The Drive Mode options screen appears.

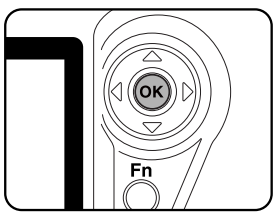


4. Use the four-way controller (◀▶) to select ⏲ or ⏲2s .

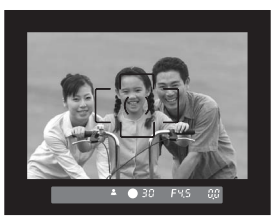


5. Press the **OK** button. The screen returns to the Fn menu.

6. Press the **Fn** button. The camera is ready to take a picture.



7. Confirm in the viewfinder that the subject you wish to shoot is in the display and press the shutter release button halfway.
The focus indicator ● appears when the subject is in focus.



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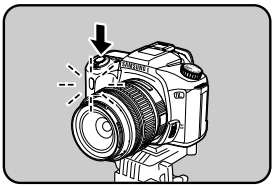
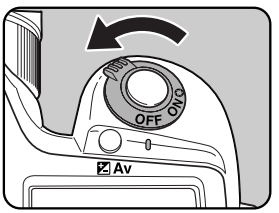
8. Press the shutter release button fully.
   For ⏲ , the self-timer lamp starts blinking slowly and blinks rapidly 2 seconds before the shutter is released.
   The beep is heard and the rate increases.
   The shutter will be released about 12 seconds after the shutter release button is pressed fully.
   For ⏲2s , the shutter will be released about 2 seconds after the shutter release button is pressed fully.



9. Turn the camera off after shooting.
   The next time the power is turned on, self-timer shooting is canceled and returns to single frame shooting.



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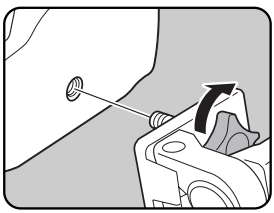
Other Shooting Modes

Remote Control Shooting (Remote Control F: Sold Separately)

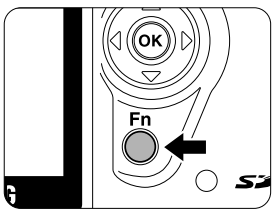
- Remote Control for PENTAX DSLR can be used with SAMSUNG DSLR.
- The shutter can be released with the optional remote control unit. You can select from (remote control) and (three-second delay) for remote control shooting.

	The shutter will be released immediately after the shutter release button on the remote control unit is pressed.
3s	The shutter will be released 3 seconds after the shutter release button on the remote control unit is pressed.

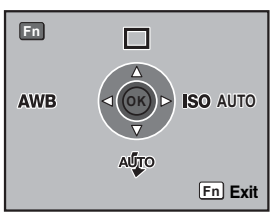
1. Mount the camera to a tripod.



2. Press the Fn button.



The Fn menu appears.



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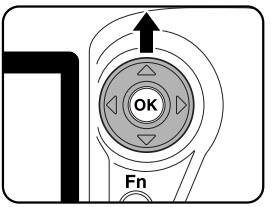
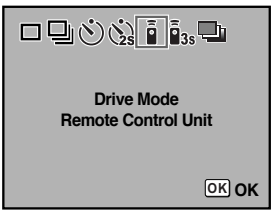
3. Press the four-way controller (▲).
   The Drive Mode options screen appears.



4. Use the four-way controller (◀▶) to select or .
   The self-timer lamp will blink to let you know that the camera is in remote control wait status.



5. Press the **OK** button. The screen returns to the Fn menu.

6. Press the **Fn** button. The camera is ready to take a picture.

7. Press the shutter release button halfway.
   The autofocus system operates. The focus indicator ● appears in the viewfinder when the subject is in focus.

INFORMATION

- You cannot focus with the remote control unit in default settings. Focus on the subject first before operating with the remote control. You can set [AF in remote control] to [On] in the custom function. (p.100)
- When using the Remote Control Unit, flash does not pop up automatically even when set to (Auto discharge). Pop up the flash manually beforehand. (p.49)

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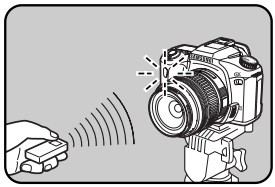
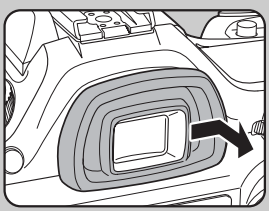
7. Point the remote control unit towards the front of the camera and press the shutter release button on the remote control. The operating distance of the remote control unit is about 5 m from the front of the camera. The shutter will be released immediately or approximately 3 seconds after the shutter release button on the remote control unit is pressed depending on the drive mode selected.
   When the picture is taken, the self-timer lamp lights for 2 seconds and will then resume blinking.

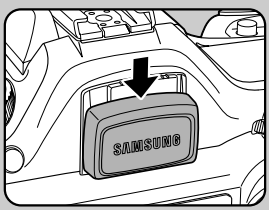


INFORMATION

- Exposure may be affected if light enters the viewfinder. Attach the provided viewfinder cap or use the AE lock function (p.161) (ignore the light entering the viewfinder when the exposure mode is set to a (manual) (p.137)).
- Remove the Eyecup by pulling one side out and toward you when using accessories such as the ME viewfinder cap.



[Removing the Eyecup]



[Attaching the Viewfinder cap]

- Turn the power off to stop the remote control operation after it has been activated.
- The remote control may not operate in backlit conditions.
- The remote control does not work while the flash is being charged.
- When using the built-in flash, raise the flash into position first.
- The camera automatically returns to single frame shooting after the remote control shooting mode is left unused for 5 minutes.
- The remote control unit battery can send a remote control signal about 30,000 times.

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Other Shooting Modes

Using Mirror Lock Up Function to Prevent Camera Shake

■ Use the Mirror Lock Up function if camera shake is evident even when Cable Switch (optional) or Remote Control Unit (optional) is used.
When shutter release button is pressed, mirror pops up and shutter is released 2 seconds later if 2 sec. Self-Timer is used. Avoid camera shake when mirror pops up by using this method. Follow the procedure below to take a picture with the mirror lock up.

1. Mount the camera to a tripod.

2. Use the **Fn** button and the four-way controller (▲) to select (2 sec. Self-Timer).
- Self-Timer Shooting (p.55)

3. Focus on the subject.

4. Press the shutter release button fully.
The mirror pops up and the picture is taken 2 seconds later. AE lock is enabled with the exposure value set immediately before the mirror goes up.

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Playing Back Still Pictures

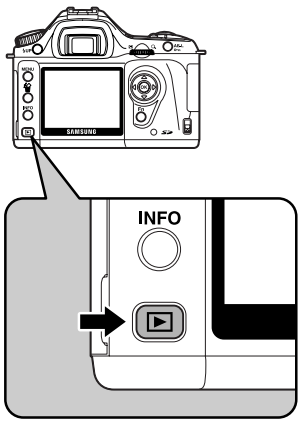
Playing Back Images

■ You can play back captured still pictures with the camera.

INFORMATION

● Use the included “Digimax Master” software to play back using a PC.
Refer to the software instructions for details. (p.173)

1. Press the ▶ button after taking a picture.
The most recently captured image (image with the largest file number) is displayed on the LCD monitor.



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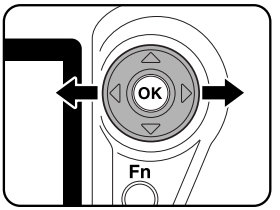
Playing Back Still Pictures

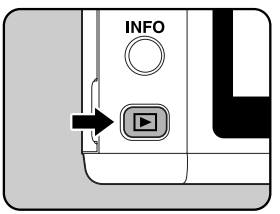
2. Press the four-way controller (◀▶).
   ◀ : The previous image appears.
   ▶ : The next image appears.



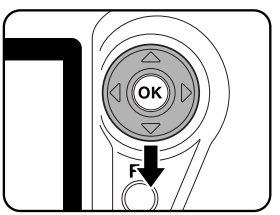
Rotating Images

■ You can rotate images 90° counterclockwise at a time. Make images shot vertically easier to view.

1. Press the [▶] button after taking a picture.
   The most recently captured image (image with the largest file number) is displayed on the LCD monitor.



2. Press the four-way controller (▼).
   The image is rotated 90° counterclockwise each time the button is pressed.



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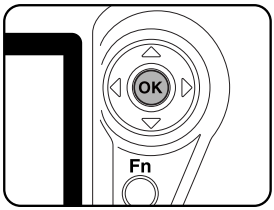
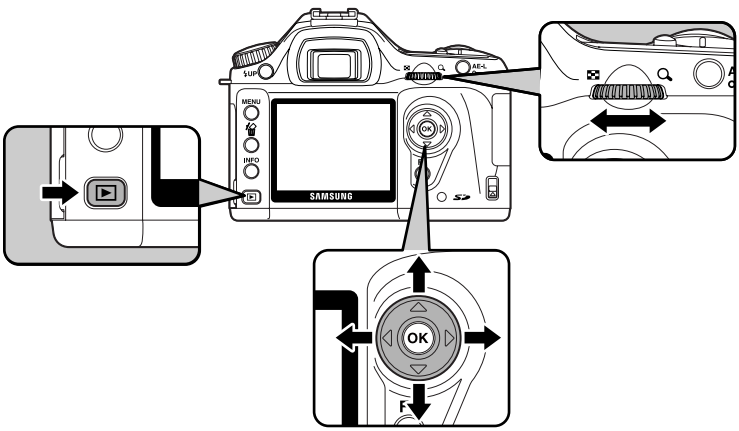
3. Press the OK button.
   Image rotation information is saved.



Enlarging Playback Images

■ You can magnify images up to 12 times when displaying.



1. Press the ▶ button and use the four-way controller (◀▶) to select an image.
   The most recently captured image (image with the largest file number) is displayed first on the LCD monitor.

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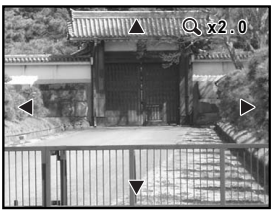
Playing Back Still Pictures

2. Turn the e-dial to the right (toward Q).
   Image enlarges at each calibration and can be enlarged to 12 times the original. Turn to the left (toward ▦) to return.
   Press the **OK** button to return to the original size.
   Press four-way controller (▲▼◀▶) in zoom display to change the display area.

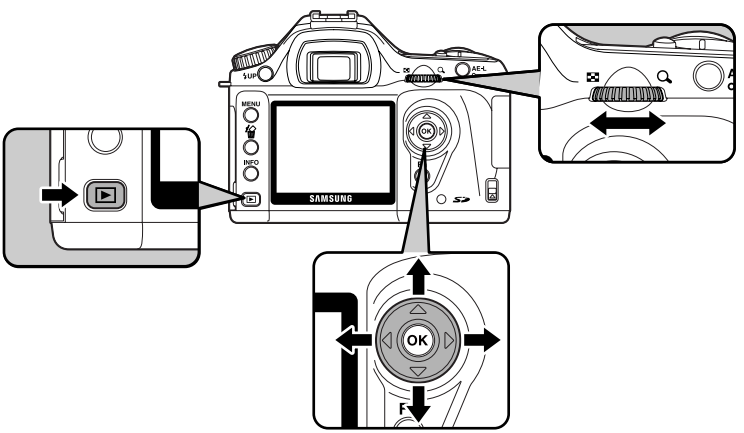


INFORMATION

- The first calibration on the e-dial is 1.2 times. You can change this in [Mag to Strt Zm Plybk] in [**C** Custom Setting] menu. (p.101)

Nine-Image Display

■ You can display nine images on the LCD monitor at the same time.



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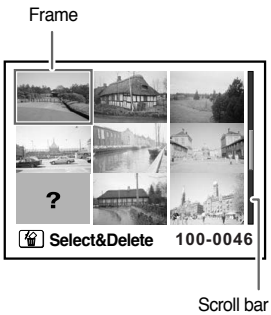
Playing Back Still Pictures

1. Press the ▶ button.
   The most recently captured image (image with the largest file number) is displayed on the LCD monitor.

2. Turn the e-dial to the left (toward ▦).
   Up to nine thumbnail images will be displayed at once.
   Press the four-way controller (▲▼◀▶) to select an image.
   A scroll bar appears at the right of the screen.
   With an image selected in the bottom row, pressing the four-way controller (▼) displays the next nine images.
   [?] appears for an image that cannot be displayed.



3. Turn the e-dial to the right (towards 🔍) or press the OK button.
   A full screen display of the selected image appears.

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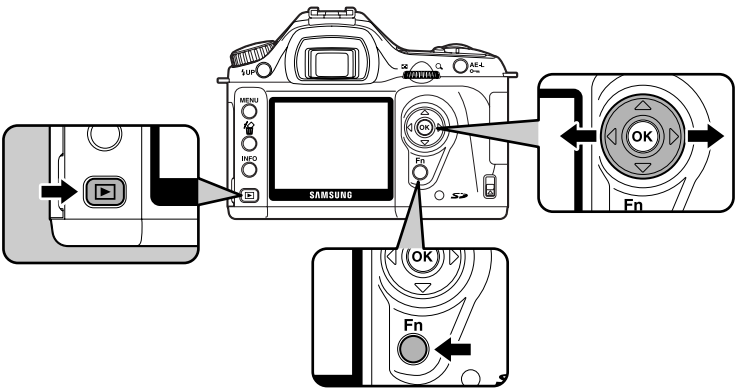
Playing Back Still Pictures

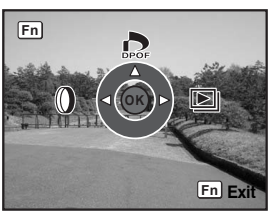
Slideshow

■ You can play back all images recorded on your SD Memory Card successively. To start continuous playback, use the menu screen displayed on the LCD monitor.



1. Press the ▶ button and use the four-way controller (◀▶) to select an image to be displayed first.
   The most recently captured image (image with the largest file number) is displayed first on the LCD monitor.

2. Press the **Fn** button.
   The Fn menu appears.



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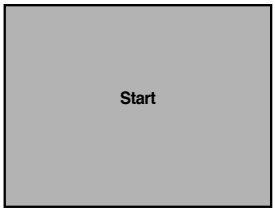
Playing Back Still Pictures

3. Press the four-way controller (▶).
   Start screen is displayed and slideshow begins.

   Press any button to end slideshow.
   Press the shutter release button or the [▶] button, slide the main switch to (preview) or turn the mode dial to change to Capture mode.



INFORMATION

- Set the display time for slideshow in the [▶ Playback] menu. Alternatively, start the slideshow from the [▶ Playback] menu. (p.159)

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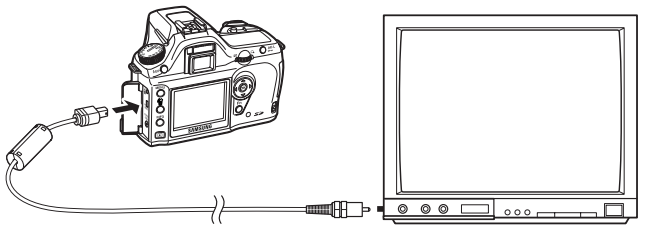
Connecting the Camera to AV Equipment

■ By using the video cable, you can play back images using a TV or other device with a video IN jack as your monitor. Make sure that both the TV and the camera are turned off before connecting the cable.

- Selecting the Video Output Format (p.166)



1. Open the terminal cover and connect the video cable to the USB/ Video terminal.

2. Connect the other end of the video cable to the video IN jack on the AV device.

3. Turn the AV device and camera on.

INFORMATION

- If you intend to use the camera continuously for a long period, use of the AC adapter (D-AC10, optional) is recommended. (p.26)
- For AV equipment with multiple video IN jacks (such as TVs), check the operating manual of the AV device, and select the video IN jack to which the camera is connected.
- Depending on the country or region, images may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting. (p.166)
- The camera LCD monitor turns off while the camera is connected to the AV device.

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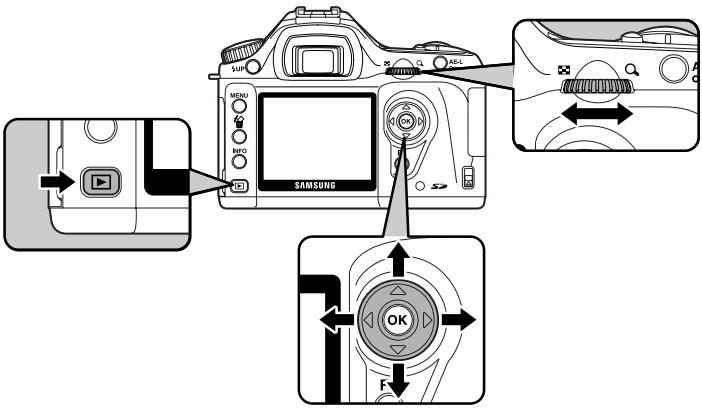
Processing Images with Filters

■ You can edit shot images using digital filters. Processed images are saved under a different name.

INFORMATION

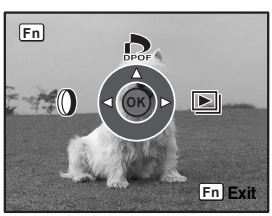
- RAW images cannot be processed using the digital filter.
- Additionally, set digital filters from the [▶ Playback] menu.



● Digital Filter

B&W	Convert to a black and white image.
Sepia	Add a vintage touch to photos by converting them to sepia color.
Soft	Create a soft image by lightly fading the entire image. Select from three levels.
Slim	Change the horizontal and vertical ratio of images. Adjust height or width up to two times the original size.
Brightness	Change the brightness of images. Adjust in a range of ±8 levels.

1. Press the **Fn** button in Playback mode.
   The Fn menu appears.



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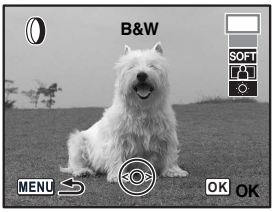
Processing Images with Filters

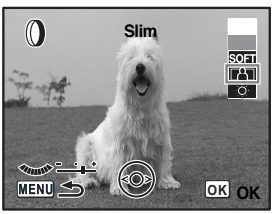
2. Press the four-way controller (◀).
   The screen for selecting the filter appears.



3. Use the four-way controller (◀▶) to select an image.

4. Use the four-way controller (▲▼) to select a filter.
   Select a filter and preview the effects on the image. Proceed to Step 6 if [B&W] or [Sepia] is selected.

5. Adjust with e-dial if slim filter, soft filter or brightness filter is selected.
   Turn counterclockwise for wider and clockwise for slimmer if slim filter is selected. Turn counterclockwise to darken and clockwise to brighten if brightness filter is selected. Select softness from three levels if soft filter is selected.
   Use the four-way controller (◀▶) to select an image.
   The image appears in the set slimness or softness.



6. Press the **OK** button. The save confirmation screen appears.

7. Use the four-way controller (▲) to select [Save as].

8. Press the **OK** button.
   The filtered image is saved under a different name.

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Deleting Images

Deleting a Single Image

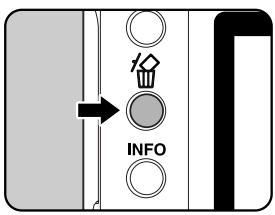
■ You can delete one image at a time.

INFORMATION

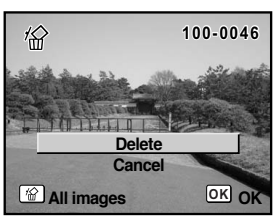
- Deleted images cannot be restored.
- Protected images cannot be deleted.

1. Press the ▶ button and use the four-way controller (◀▶) to select an image to delete.

2. Press the 🗑 button.
   The Delete screen appears.



3. Use the four-way controller (▲) to select [Delete].



4. Press the OK button.
   The image is deleted.

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Deleting Images

Deleting All Images

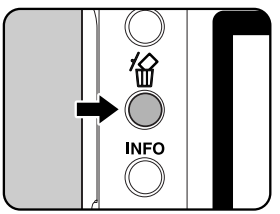
■ You can delete all saved images at once.

INFORMATION

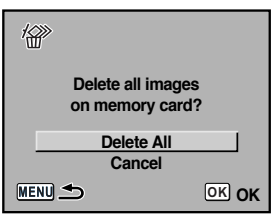
- Deleted images cannot be restored.
- Protected images cannot be deleted.

1. Press the ▶ button.

2. Press the button twice.
   The Delete All screen appears.



3. Use the four-way controller (▲) to select [Delete All].



4. Press the OK button.
   All images are deleted.

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Deleting Images

Deleting Selected Images (from Nine-Image Display)

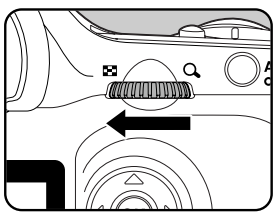
■ You can delete multiple images from the nine-image display at once.

INFORMATION

- Deleted images cannot be restored.
- Protected images cannot be deleted.
- Only files in the same folder can be selected at once.

1. Press the ▶ button.
   The most recently captured image (image with the largest file number) is displayed first on the LCD monitor.

2. Turn the e-dial to the left (toward ⊞).



Nine thumbnail images appear.

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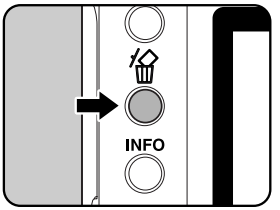
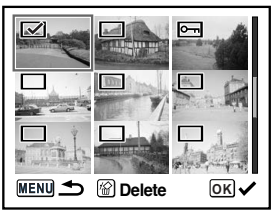
Deleting Images

3. Press the button.
   appears above the images.

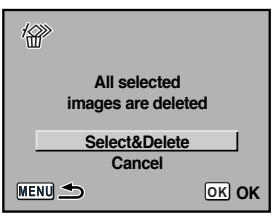


4. Use the four-way controller (▲▼◀▶) to move to the images to delete and press the **OK** button.
   Image is selected and ☑ appears.
   Press **Fn** button to select all images (the selection of images may take time to complete depending on the number of images).



5. Press the button.
   The Delete confirmation screen appears.

6. Use the four-way controller (▲) to select [Select&Delete].



7. Press the **OK** button.
   The selected images are deleted.

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Protecting Images

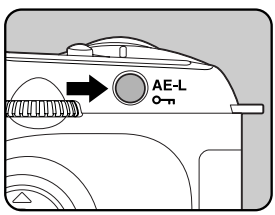
Protecting Images from Deletion (Protect)

■ You can protect images from being accidentally deleted.

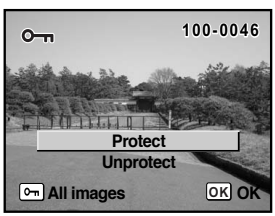
※ Even protected images are deleted if the SD Memory Card is formatted.

1. Press the ▶ button and use the four-way controller (◀▶) to select an image.
   The most recently captured images (image with the largest file number) are displayed first on the LCD monitor.

2. Press the 🔑 button.
   The Protect screen appears.



3. Use the four-way controller (▲) to select [Protect].



4. Press the OK button.
   The selected image is protected.

INFORMATION

- Select [Unprotect] in Step 3 to cancel the Protect setting.
- The 🔑 symbol is displayed when playing back protected images. (p.17)

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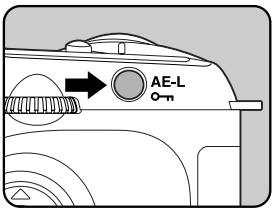
Protecting Images

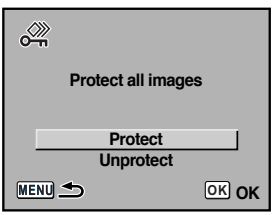
Protecting All Images

1. Press the ▶ button.

2. Press the 🔑 button twice.
   The Protect all images screen appears.



3. Press the four-way controller (▲) to select [Protect] and press the OK button.
   All images saved in the SD Memory Card are protected.



※ Select [Unprotect] in Step 3 to cancel the Protect setting on all of the images.

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Setting the Printing Service (DPOF)

■ You can order conventional photograph prints by taking the SD Memory Card with recorded images to a store for a printing service.
DPOF (Digital Print Order Format) settings allow you to specify the number of copies or to imprint the date.

※ DPOF settings cannot be applied to RAW images.

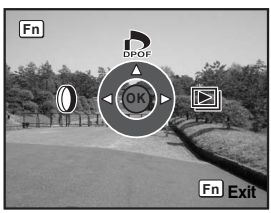
Printing Single Images

■ Set the following items for each image.

Copies	Selects the number of copies. You can print up to 99 copies.
Date	Specifies whether you want the date inserted on the print or not.

1. Press the [▶] button and use the four-way controller (◀▶) to select an image.

2. Press the **Fn** button.
The Fn menu appears.



3. Press the four-way controller (▲).
The DPOF screen appears.
If DPOF settings have already been made for an image, the previous number of prints and date setting (☑ (on) or ☐ (off)) will be displayed.

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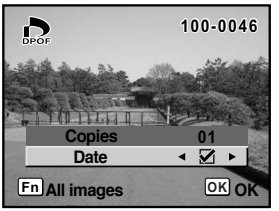
Setting the Printing Service (DPOF)

4. Use the four-way controller (◀▶) to choose the number of copies and press the four-way controller (▼).
   The frame moves to [Date].

5. Use the four-way controller (◀▶)to choose whether to insert the date (☑) or not (☐).
   - (☑) : The date will be imprinted.
   - (☐) : The date will not be imprinted.



6. Press the **OK** button.
   The DPOF settings are saved and the camera returns to playback status.

INFORMATION

- Depending on the printer or printing equipment at the photo processing lab, the date may not be imprinted on the pictures even if the DPOF setting was made.
- To cancel DPOF settings, set the number of copies to [00] in Step 4 and press the **OK** button.

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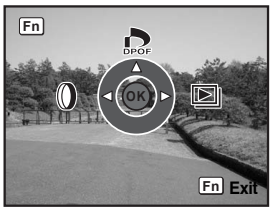
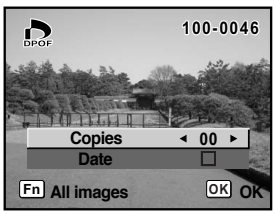
Setting the Printing Service (DPOF)

Settings for All Images

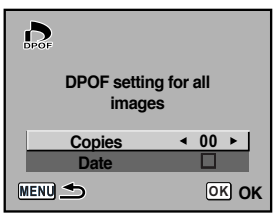
1. Press the **Fn** button in Playback mode.
   The Fn menu appears.



2. Press the four-way controller (▲).
   The DPOF screen appears.



3. Press the **Fn** button.
   The screen for making DPOF settings for all images appears.



4. Use the four-way controller (◀▶) to choose the number of copies and whether to insert the date (☑) or not (☐).
   Refer to Steps 4 and 5 in "Printing Single Images" (p.79) for details of how to make the settings.

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Setting the Printing Service (DPOF)

5. Press the **OK** button.
   The DPOF settings for all the images are saved and the camera returns to playback status.

INFORMATION

- The number of copies specified in settings for all images applies to all the images. Before printing, check that the number is correct.
- Settings for single images are canceled when settings are made for all images.

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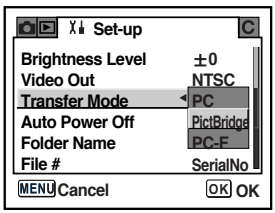
Printing Using PictBridge

■ This function lets you print images directly from the camera without using a PC (direct printing). Connect the camera and PictBridge compatible printer with the included USB cable to print directly. Select the images you want to print, the number of copies and whether to insert the date or not on the camera after connecting to the printer.
Direct printing is performed in the following steps.

Set [Transfer Mode] on camera to [PictBridge]
↓
Connect the camera to the printer (p.85)
↓
Set the printing options (p.79)
Print single images (p.86)
Print all images (p.88)
Print with DPOF settings (p.90)
↓
Disconnect the camera from the printer (p.90)



INFORMATION

- Use of the AC adapter (D-AC10, optional) is recommended when connecting the camera to a printer. The printer may not work properly or the image data may be lost if the batteries run out of power while the camera is connected to the printer.
- Do not disconnect the USB cable during data transfer.
- Depending on the type of printer, not all the settings made on the camera (such as print settings and DPOF settings) may be valid.
- A printing error may occur if the selected number of copies exceeds 500.
- You cannot use the camera to select multiple images for printing on a single sheet. Make the settings on the printer. For details, refer to the operating manual for your printer.
- RAW images cannot be printed directly. Use a PC to print RAW images.
- See the software instructions when connecting to a PC. (p.173)

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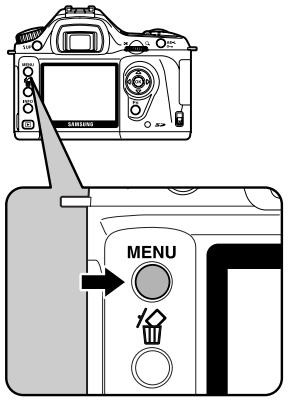
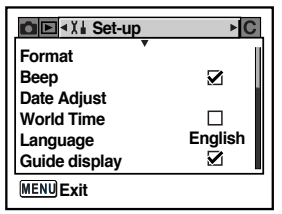
Printing Using PictBridge

Setting [Transfer Mode]

1. Press the **MENU** button.
   The [Rec. Mode] menu appears.



2. Use the four-way controller (◀▶) to select the [Set-up] menu.



3. Use the four-way controller (▲▼) to select [Transfer Mode].

4. Press the four-way controller (▶).
   A pop-up menu appears.

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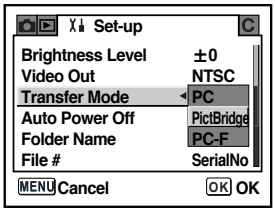
Printing Using PictBridge

5. Use the four-way controller (▲▼) to select [PictBridge].

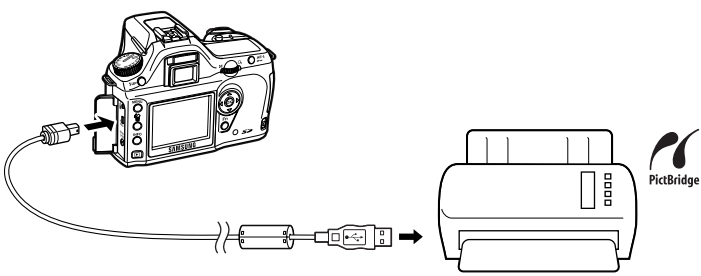


6. Press the **OK** button.
   The setting is changed.

7. Press the **MENU** button.

Connecting the Camera to the Printer

1. Turn the camera off.
2. Connect the camera and PictBridge compatible printer using the USB cable supplied with the camera.



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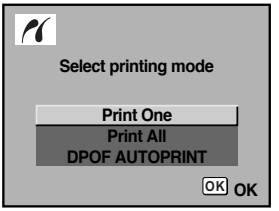
Printing Using PictBridge

3. Turn the printer on.

4. After printer start-up is complete, turn the camera on.
   The PictBridge menu appears.

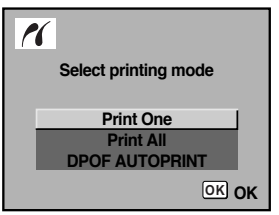


INFORMATION

- PictBridge menu is not displayed if [Transfer Mode] is set to [PC] or [PC-F].

Printing Single Images

1. Use the four-way controller (▲▼) to select [Print One] on the PictBridge menu.



2. Press the OK button.
   The Print one screen appears.

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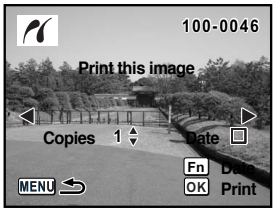
Printing Using PictBridge

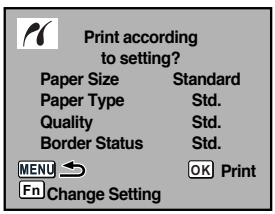
3. Use the four-way controller (◀▶) to choose an image to print.



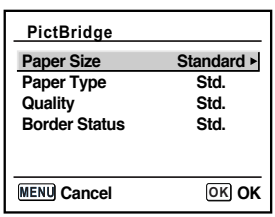
4. Use the four-way controller (▲▼) to choose the number of copies. You can print up to 99 copies.

5. Use the **Fn** button to choose whether to insert the date (☑) or not (☐).
   (☑) : The date will be printed.
   (☐) : The date will not be printed.

6. Press the **OK** button.
   The print settings confirmation screen appears.
   Proceed to Step 12 to print the images by default.
   To change the print settings, go to Step 7.



7. Press the **Fn** button.
   The screen for changing print settings appears.



8. Select [Paper Size] and press the four-way controller (▶).
   The Paper Size screen appears.

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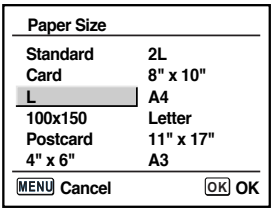
Printing Using PictBridge

9. Use the four-way controller (▲▼◀▶) to choose the paper size.
   You can only choose a size that is supported by your printer.
   When the Paper Size is set to [Standard], images are printed according to the printer settings.



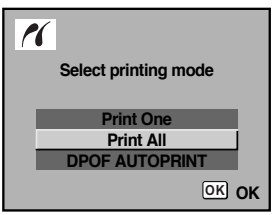
10. Press the **OK** button.

11. [Repeat Steps 8 to 10 to set [Paper Type], [Quality] and [Border Status].
    The print settings change screen appears after each item has been set.
    When the Paper Size is set to [Standard], images are printed according to the printer settings.
    - [Paper Type] : (Best), (Better), (Good)
    - [Quality] : (Super fine), (fine), (Normal)

12. Press the **OK** button twice.
    The image is printed according to the settings.
    Press the **MENU** button to cancel printing.

Printing All Images

1. Use the four-way controller (▲▼) to select [Print All] on the PictBridge menu.



2. Press the **OK** button.
   The Print all images screen appears.

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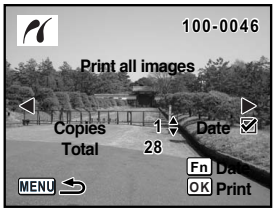
Printing Using PictBridge

3. Choose the number of copies and whether to imprint the date or not.
   The number of copies and the date setting that you choose apply to all of the images.
   Refer to Steps 4 and 5 of "Printing Single Images" (p.87) for details on how to change the settings.



4. Press the **OK** button.
   The print settings confirmation screen appears.
   Refer to Steps 7 and 11 of "Printing Single Images" (p.87 and 88) for details on how to change the settings.

5. Press the **OK** button on the print settings confirmation screen.
   All the images are printed according to the settings.
   Press the **MENU** button to cancel printing.

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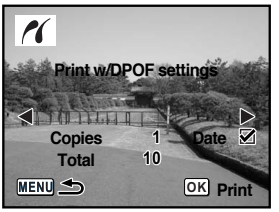
Printing Using PictBridge

Printing Images Using the DPOF Settings

1. Use the four-way controller (▲▼) to select [DPOF AUTOPRINT] on the PictBridge menu.

2. Press the **OK** button.
   The Print w/ DPOF settings screen appears.
   Use the four-way controller (◀▶) to check the number of copies for each image, whether the date is imprinted or not, and total number of copies. Print settings are set with the Print Service. (p.79)



3. Press the **OK** button.
   The print settings confirmation screen appears.
   Refer to Steps 7 and 11 of "Printing Single Images" (p.87 and 88) for details on how to change the settings.

4. Press the **OK** button on the print settings confirmation screen.
   The images are printed according to the settings.
   Press the **MENU** button to cancel printing.

Disconnecting the Cable from the Printer

■ Disconnect the cable from the printer when you have finished printing.

1. Turn off the camera.

2. Disconnect the USB cable from the camera and printer.

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4 Menu Reference

Explains the functions of GX-1L by buttons and menus.

Using the Button Functions 92
Using the Menu 96
Using the Fn Menu 102
Using the Mode Dial 104

When using menus and Fn menu, items which cannot be changed due to camera settings appear gray and cannot be selected.

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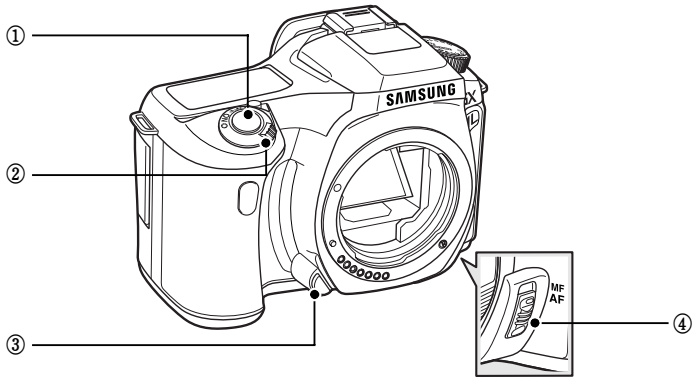
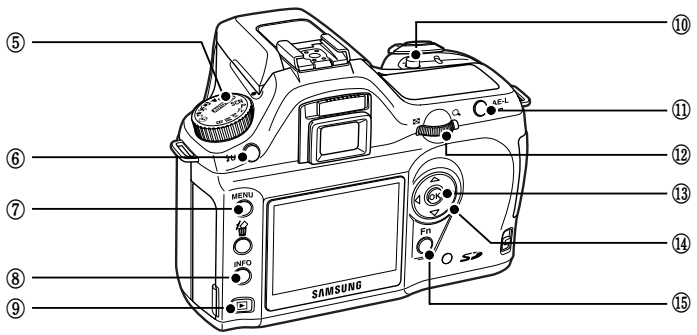
Using the Button Functions

Capture Mode

■ Functions of buttons used during shooting are noted.





① Shutter release button
Press to capture images. (p.43)

② Main switch
Move to turn the power on/off (p.30) and confirm the depth of field (Preview) (p.128).

③ Lens unlock button
Press to detach lens. (p.36)

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Using the Button Functions

④ Focus mode lever
Switches between Autofocus mode (p.118) and Manual focus mode (p.125).
⑤ Mode dial
Changes the Shooting mode. (p.104)
⑥ **UP** button
Press to pop up the built-in flash. (p.49)
⑦ **MENU** button
Displays the [Rec. Mode] menu (p.98). Next, press the four-way controller (▶) to display [Playback] menu (p.98), [Set-up] menu (p.99) and [C Custom Setting] menu. (p.98)
⑧ **INFO** button
Press to show shooting information on the LCD monitor. (p.15)
⑨ button
Switches to the Playback mode. (p.63)
⑩ **Av** button
Press to set aperture and EV compensation values. (p.137, p.140)
⑪ **AE-L** button
Locks the exposure before shooting. (p.141)
Automatically adjusts the appropriate exposure in the Manual mode. (p.137)
⑫ e-dial
Sets shutter speed, aperture, and EV compensation values. (p.133, 135, 140)
⑬ **OK** button
Saves the setting you selected in the menu.
⑭ Four-way controller (▲▼◀▶)
Uses it to move cursor or change items in menus and Fn menu.
⑮ **Fn** button
Press to display the Fn menu. Press the four-way controller (▲▼◀▶) to determine the following operation. (p.102)

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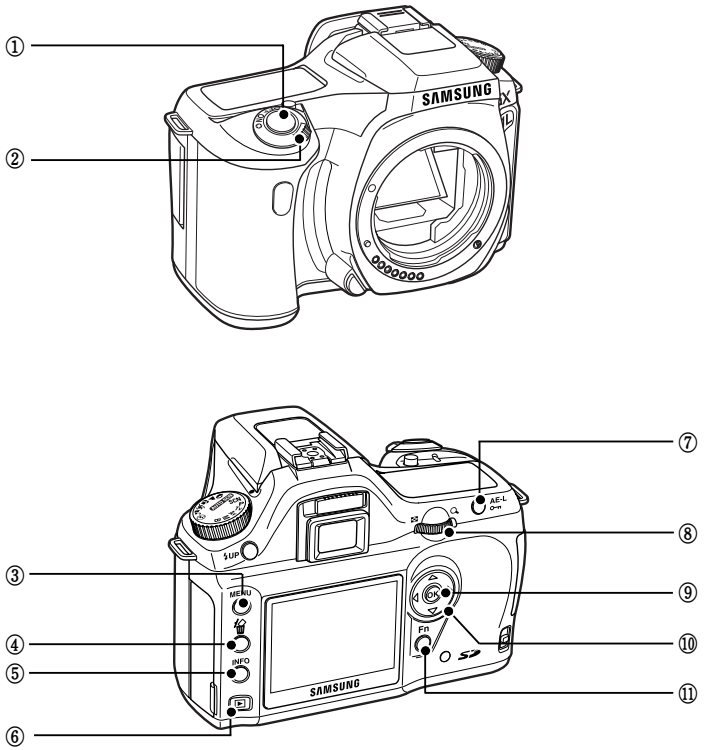
Using the Button Functions

Playback Mode

■ Functions of buttons used during playback are noted.



① Shutter release button
Press to switch to capture mode.

② Main switch
Move to turn the camera on and off. (p.30)

③ **MENU** button
Press to display the [▶ Playback] menu (p.98). Next, press the four-way controller (◀▶) to display [Set-up] menu (p.99), [**C** Custom Setting] menu (p.100) and [Rec. Mode] menu (p.98).

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Using the Button Functions

④ button
Press to delete images. (p.73)
⑤ **INFO** button
Press to show shooting information on the LCD monitor. (p.16)
⑥ ▶ button
Press to switch to capture mode.
⑦ button
Press to protect images from being accidentally erased. (p.77)
⑧ e-dial
Uses it to enlarge an image (p.65) or display nine images at the same time. (p.66)
⑨ **OK** button
Saves the setting you selected in the menu or playback screen.
⑩ Four-way controller (▲▼◀▶)
Uses it to move cursor or change items in menus, Fn menu and playback screen.
⑪ **Fn** button
Press to display the Fn menu. Press the four-way controller (▲◀▶) to determine the following operation. (p.102)

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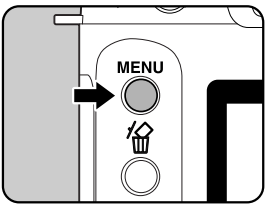
Using the Menu

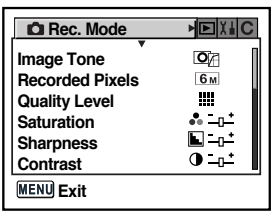
How to Operate the Menu

■ This section explains operation methods for [Rec. Mode] menu, [Playback] menu, [Set-up] menu and [C Custom Setting] menu.

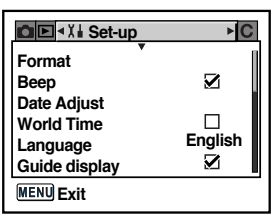
● Displaying the Menu screen

1. Press the **MENU** button in Capture mode.
   - The [Rec. Mode] menu appears on the LCD monitor.





2. Press the four-way controller (▶).
   - [Playback] menu, [Set-up] menu and [C Custom Setting] menu appear in order each time the four-way controller is pressed.



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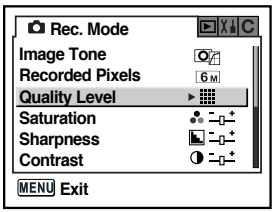
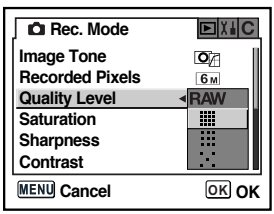
Using the Menu

- Select a menu item and set
- Procedure to set the [Quality Level] on the [Rec. Mode] menu is explained as an example.

3. Use the four-way controller (▲▼) to choose an item.



4. Press the four-way controller (▶).
   - Available [Quality Level] options appear.
     Press the four-way controller (▶) to move to the pop-up menu if there is one.



5. Use the four-way controller (▲▼) to select a setting.

6. Press the **OK** button.
   - The camera returns to the menu screen. Next, set other items.
   - Press the **MENU** button to return to Capture or Playback mode.

INFORMATION

- Even after you press the **MENU** button and close the menu screen, your settings will not be saved if the camera is turned off improperly (such as by removing the batteries while the camera is on).
- You can use the e-dial to switch among the [Rec. Mode] menu, the [Playback] menu, [Set-up] menu, and [C Custom Setting] menu when no pop-up menu is displayed.
- If the **MENU** button is pressed in Capture mode, the [Rec. Mode] menu appears.
  If the **MENU** button is pressed in Playback mode, the [Playback] menu appears.

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■ [Rec. Mode] Menu Setting Items

Perform settings related to capturing in the [Rec. Mode] menu.

Item	Function	Page
Image Tone	Sets the color tone of pictures.	p.108
Recorded Pixels	Sets the recording size of images.	p.109
Quality Level	Sets the image quality.	p.110
Saturation	Sets the color saturation.	p.111
Sharpness	Makes the image outlines sharp or soft.	p.111
Contrast	Sets the image contrast.	p.111
Auto Bracket	Sets Auto Bracket shooting.	p.142
AE Metering	Selects the part of the screen to use for measuring brightness and determining exposure.	p.129
Focusing Area	Selects the area on which the autofocus focuses.	p.121
AF Mode	Selects the autofocus mode.	p.118
Flash Exp. Comp.	Adjusts the flash exposure to brighten or darken the image.	p.148

■ [Playback] Menu Setting Items

Perform settings related to playback and editing images in the [Playback] menu.

Item	Function	Page
Plybk dsply mthd	Sets shooting information to show during playback and whether to display overexposed area warning.	p.158
Instant Review	Sets the Instant Review time.	p.168
Preview Display	Sets to display overexposed area warning or histogram during Instant Review or Digital Preview.	p.145
Digital Filter	Edits captured images to black and white or sepia tint, or add softening and slimming effects.	p.71
Slideshow	Plays back recorded images one after another.	p.68

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Using the Menu

■ [Set-up] Menu Setting Items

Perform various settings related to the camera in the [Set-up] menu.

Item	Function	Page
Format	Formats the SD Memory Card.	p.160
Beep	Switches the beep tone on/off.	p.161
Date Adjust	Sets the date format and time.	p.161
World Time	Sets to enable displaying of local time when traveling abroad.	p.162
Language	Changes the language in which menus and messages appear.	p.165
Guide display	Sets to display indicators in LCD monitor.	p.165
Brightness Level	Changes the brightness of the LCD monitor.	p.166
Video Out	Sets the output format to the TV monitor.	p.166
Transfer Mode*	Sets the USB cable connection (PC or printer).	p.84
Auto Power Off	Sets the time to turn off automatically.	p.167
Folder Name	Sets the method used to assign folder names for storing images.	p.167
File #	Sets the method used to add file numbers.	p.168
Sensor Cleaning	Locks the mirror in the up position for cleaning the CCD.	p.194
Reset	Resets all settings other than Date Adjust, Language, Video Out and World Time.	p.170

※ Refer to the software instructions for details on connecting the camera to a PC. (p.173)

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■ [C Custom Setting] Menu Setting Items

Set custom functions to fully use the functions of a SLR camera with the Custom Function Menu. The default setting does not use Custom Function.
[C Custom Setting] menu settings are activated when [Setting], the first item, is ☑ (on).

Item	Function	Page
Setting	Sets to use the Custom Function Menu.	-
Noise Reduction	Sets to use Noise Reduction in slow speed shooting.	-
Expsr Setting Steps	Sets the adjustment steps for exposure.	p.141
ISO Corction in AUTO	Automatically corrects sensitivity range when Sensitivity is set to [AUTO].	p.115
ISO Snstvty Wrn Dspl	Sets the maximum sensitivity level. ISO Sensitivity Warning Display appears when set sensitivity is reached or exceeded.	p.116
Link AF Point and AE	Sets to adjust AE and Focusing Area in multisegment metering based on AF point.	p.130
Meter Operating Time	Sets the exposure metering time.	p.131
AE-L with AF locked	Sets to fix exposure value when focus is locked.	-
Recordable Image No.	Sets to switch number of recordable images in the LCD panel and viewfinder to number of continuous shooting recordable images when shutter release button is pressed halfway.	-
OK btn when shooting	Sets the action for the OK button when pressed during shooting.	p.120
AE-L bttn on M expsr	Selects the exposure adjustment method when the AE-L button is pressed in M (Manual) mode.	p.139
AF in remote control	Sets to use Autofocus when shooting with remote control. Shutter releases after AF activates if shutter is released from remote control when [On]. Shutter cannot be released until in focus. AF does not activate at shutter release from remote control when [Off].	p.59

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Item	Function	Page
FI with S lens used*1	Sets to enable focus indicator when screw mount lens is in use. Lens is recognized even when lens is not attached to the camera when enabled.	-
Using aperture ring*2	Sets to enable shutter release when lens aperture ring is set at other than A.	-
Release when Chrging	Sets to release shutter while the built-in flash is charging.	p.149
Preview Method	Selects Digital Preview or Optical Preview when the main switch is in the preview position ( ). Digital Preview lets you check the composition, exposure and focus on the LCD monitor before taking the picture. Optical Preview lets you check the depth of field with the viewfinder.	p.145
Mag to Strt Zm Plybk	Sets the initial magnification of the zoom playback. Choose from [1.2 times], [2 times], [4 times], [8 times] and [12 times]. The default setting is [1.2 times].	-
Man. WB Measurement	Sets to meter entire screen or Spot area when setting white balance to manual.	p.113
Color Space	Sets the color space to use.	p.117
Reset Custom Fnction	Resets all the settings in the Custom Function menu to the defaults.	p.171

*1 : When the screw mount lens is in use, [FI with S lens used] menu is available.
*2 : When a lens that has aperture ring is in use, [Using aperture ring] menu is available.

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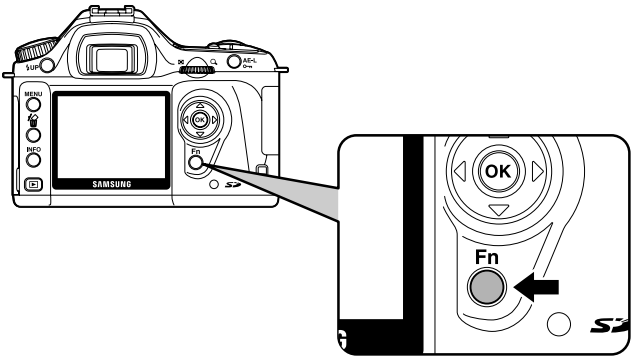
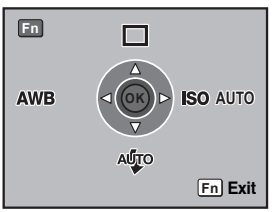
Using the Fn Menu



Capture Mode

■ Press the Fn button while taking a picture.
The Fn menu appears.



● Press the four-way controller (▲▼◀▶) to set the operation.

Four-way controller	Item	Function	Page
▲	Drive Mode	Selects Continuous shooting, Self-Timer, Remote control or Auto bracket.	p.53
▼	Flash Mode	Adjusts the method of flash discharge.	p.49
◀	White Balance	Adjusts the color for the color of the light source illuminating the subject.	p.112
▶	Sensitivity	Sets the sensitivity.	p.115

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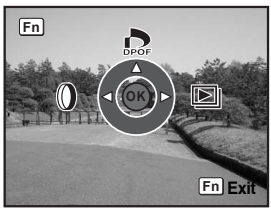
Using the Fn Menu

Playback Mode

■ Press the **Fn** button during playback.
The Fn menu appears.



● Press the four-way controller (▲◀▶) to set the operation.

Four-way controller	Item	Function	Page
▲	DPOF Settings	Sets the DPOF settings.	p.79
◀	Digital Filter	Edits captured images to black and white or sepia tint, adds softening and slimming effects, or adjusts brightness.	p.71
▶	Slideshow	Plays back recorded images one after another.	p.68

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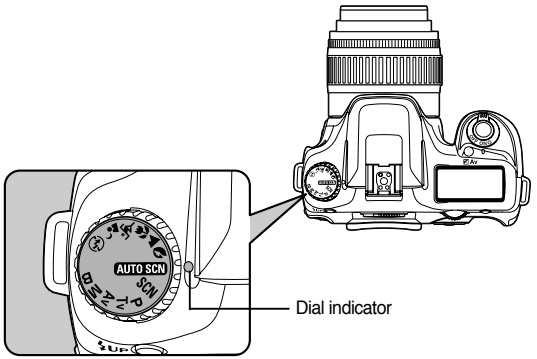
Using the Mode Dial



■ You can switch the Shooting mode by setting the icons on the mode dial to the dial indicator.

Item	Function	Page
AUTO SCN (Auto Scene)	Selects automatically from Normal, Portrait, Landscape, Macro, and Moving Object modes.	P.45
(Portrait)	Optimal for capturing portraits.	
(Landscape)	Deepens the focus range, emphasizes contour and saturation of trees and the sky, and produces a bright image.	
(Macro)	Lets you take vibrant pictures of flowers and other small subjects at short distances.	
(Moving Object)	Lets you take sharp pictures of a quickly moving subject, such as at a sporting event.	
(Night Scene Portrait)	Lets you capture people against a night view or dusk.	
(Flash OFF)	The built-in flash is deactivated. Other settings are the same as the Normal mode in AUTO SCN .	
SCN (Scene)	Lets you select from 8 shooting scenes depending on the shooting conditions.	

INFORMATION

- For (Night Scene Portrait), the shutter speed becomes slower in dark places, even if the built-in flash is used. Use a tripod to avoid camera shake.

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Using the Mode Dial

Item	Function	Page
P (Program)	Automatically sets shutter speed and aperture to the proper exposure when taking pictures.	p.132
Tv (Shutter Priority)	Lets you set the desired shutter speed for expressing the motion of moving subjects. Take pictures of fast moving subjects that look still or subjects that give a sense of movement.	p.133
Av (Aperture Priority)	Lets you set the desired aperture for controlling the depth of field. Use to blur or focus on the background.	p.135
M (Manual)	Lets you create the picture you have in mind by combining set shutter speed and aperture.	p.137
B (Bulb)	Lets you capture images that require slow shutter speeds such as fireworks and night scenes.	p.139

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MEMO

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5 Function Reference

Introduces functions to further enhance your GX-1L experience.

Setting the Recorded Pixels and Quality Level 108
Focusing 118
Setting the Exposure 127
Checking the Composition, Exposure and Focus Before Shooting 145
Using the Built-in Flash 148
Using an External Flash (Optional) 153
Settings During Playback 158
Camera Settings 160
Resetting to Default Settings 170

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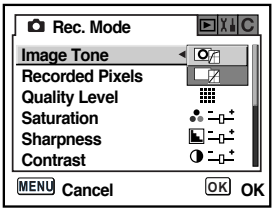
Setting the Recorded Pixels and Quality Level

Setting the Image Tone

■ Set the basic color tone of pictures. The default setting is (Bright).

	Bright	Images are finished brightly, with high contrast and sharp.
	Natural	Images are finished naturally and suitable for retouching.

● Set in [Image Tone] in the [Rec. Mode] menu. (p.98)



INFORMATION

● Settings cannot be changed in Scene mode and SCN mode. Setting is fixed to (bright).

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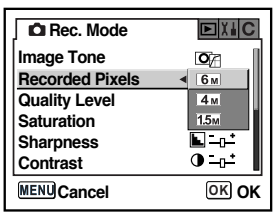
Setting the Recorded Pixels and Quality Level

Setting the Recorded Pixels

■ You can select the number of recorded pixels from 6M (3008x2008/ 3008x2000), 4M (2400x1600) and 1.5M (1536x1024). The more pixels there are, the larger the picture and the bigger the file size. The file size will also differ according to quality level settings.
The default setting is 6M (3008x2000).

6M	3008x2008 (RAW) 3008x2000 (JPEG)	Suited for printing on A3 paper.
4M	2400x1600	Suited for printing on A4 paper.
1.5M	1536x1024	Suited for printing on A5 paper.

● Set in [Recorded Pixels] in the [Rec. Mode] menu. (p.98)



INFORMATION

● [Recorded Pixels] cannot be selected if the [Quality Level] is set to RAW. (Fixed at 3008x2008)

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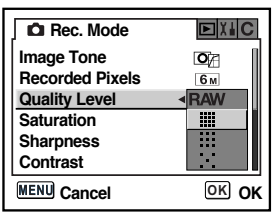
Setting the Recorded Pixels and Quality Level

Setting the Quality Level

■ You can set the image quality level. The file size will also differ according to the Recorded Pixels settings. The default setting is ▦ (Best).

RAW	RAW	RAW data is CCD output data saved without processing. Effects such as White Balance, Contrast, Saturation and are not applied to the image but such information is saved. Transfer to a PC, apply effects with the enclosed Digimax Master and create JPEG and TIFF images.
▦	Best	Lowest compression rate, suited for printing large pictures such as A4 size. Image is saved in JPEG format.
▦	Better	Standard compression rate, suited for viewing as photographs or on your computer screen. Image is saved in JPEG format.
▦	Good	Highest compression rate, suitable for attaching to e-mail or posting on websites. Image is saved in JPEG format.

● Set in [Quality Level] in the [📷 Rec. Mode] menu. (p.98)



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Setting the Recorded Pixels and Quality Level

Setting the Saturation/ Sharpness/ Contrast

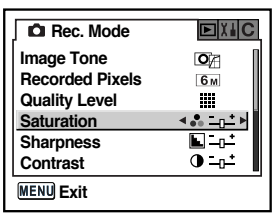
■ Select from five levels of Saturation, Sharpness and Contrast. The default setting is [0 (Standard)] for all.

Saturation	Sets the color saturation.
Sharpness	Makes the image outlines sharp or soft.
Contrast	Sets the image contrast.

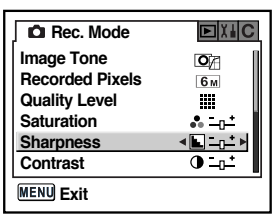
● Set [Saturation], [Sharpness] and [Contrast] in the [Rec. Mode] menu. (p.98)

INFORMATION

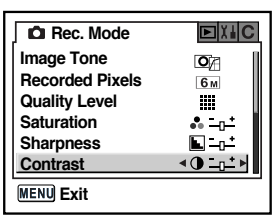
● Settings cannot be changed in Scene mode and SCN mode (p.45).



Towards + : Higher saturation
Towards – : Lower saturation



Towards + : Higher sharpness
Towards – : Lower sharpness



Towards + : Higher contrast
Towards – : Lower contrast

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Setting the Recorded Pixels and Quality Level

Setting the White Balance

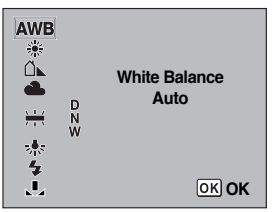
■ The color of the subject changes with the light source. For example, the same white object will be a different shade of white in daylight than under a light bulb. In cameras using film, this is adjusted by changing the film or using filters. In digital cameras, the whiteness is adjusted using white balance. The default setting is **AWB** (Auto).

AWB	Auto	Automatically adjusts the white balance. (About 4000 to 8000K)
☀	Daylight	For use when taking pictures in sunlight. (About 5200K)
⛰	Shade	For use when taking pictures in the shade. (About 8000K)
☁	Cloudy	For use when taking pictures on cloudy days. (About 6000K)
▬	Fluorescent Light	For use this when taking pictures under fluorescent lighting. Select the type of fluorescent light, from W (white) (About 4200K), N (neutral white) (About 5000K), and D (daylight) (About 6500K).
💡	Tungsten Light	For use when taking pictures under light bulb or other tungsten light. (About 2850K)
ϟ	Flash	For use to take pictures using the built-in flash. (About 5400K)
✎	Manual	For use when taking pictures by manually adjusting the white balance.

※ The color temperature (K) is an estimate. This does not indicate precise colors.

※ The white balance is adjusted based on preset values provided in the camera when set to ☀ (Daylight), ⛰ (Shade), ☁ (Cloudy), ▬ (Fluorescent Light), 💡 (Tungsten Light), or ϟ (Flash).

● Set [White Balance] in the Fn menu. (p.102)



INFORMATION

- Refer to p.113 for manual adjustment method.
- White balance cannot be adjusted in Scene mode and **SCN** mode (p.45).

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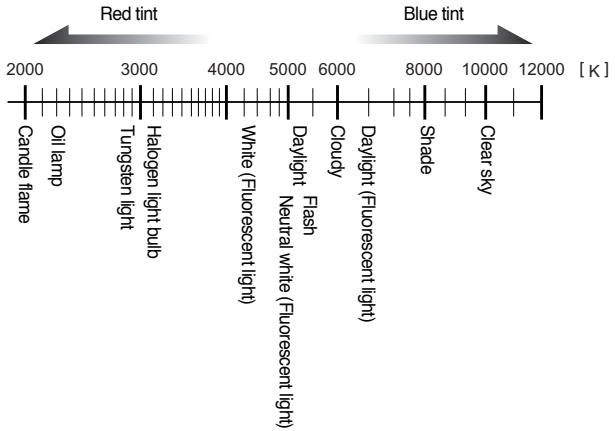
Color Temperature

The color of light shifts towards blue as the color temperature rises, and towards red as the color temperature falls. Color temperature describes this change in light color in terms of absolute temperature (K: Kelvin).
This camera is capable of setting the white balance to enable taking pictures with natural coloring under a variety of lighting conditions.



Adjusting the White Balance Manually

■ You can adjust the white balance depending on the light source when taking pictures. With Manual White Balance, the camera can store delicate shades that cannot be precisely adjusted with the white balance preset values provided in the camera. This provides the optimum white balance for your surroundings.

1. Set the mode dial to **P** , **Tv** , **Av** , **M**

2. Press the **Fn** button.
   - The Fn menu appears.

3. Press the four-way controller (◀).
   - The White Balance screen appears.

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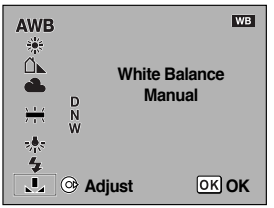
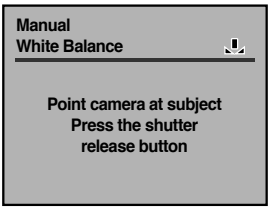
Setting the Recorded Pixels and Quality Level

4. Use the four-way controller (▼) to select (Manual).



5. Press the four-way controller (▶).
   - The message screen appears.



6. Fully display a white or gray sheet of paper in the viewfinder under the light to adjust white balance.
7. Press the shutter release button fully.
   - Slide the focus mode lever to **MF** when the shutter cannot be released.
   [OK] appears on the LCD monitor when setting is completed.
   [NG] appears when setting is not completed successfully.
8. Press the **OK** button.

INFORMATION

- No image is recorded when the shutter release button is pressed to adjust the white balance.
- Press the **Fn** button when adjustment is unsuccessful to set again.
- You can use [Man. WB Measurement] in the [**C** Custom Setting] Menu (p.100) to set the area to measure for white balance when setting manually. Even if [Entire screen] is selected, white balance of the entire screen is measured normally but the exposure metering is measured according to the [AE Metering] setting in the [Rec. Mode] menu. White Balance is only adjusted in the spot metering area if [Spot metering area] is selected.
- If picture is extremely overexposed or underexposed, white balance may not be adjusted. In this case, adjust appropriate exposure and adjust the white balance.

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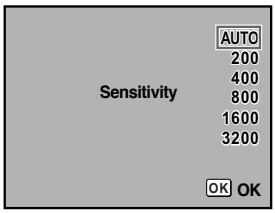
Setting the Recorded Pixels and Quality Level

Setting the Sensitivity

■ You can set the sensitivity to suit the brightness of the surroundings. The sensitivity can be set to [AUTO] or within a sensitivity range equivalent to ISO 200 to 3200.
The default setting is [AUTO].
Set [Sensitivity] in the Fn menu. (p.102)



INFORMATION

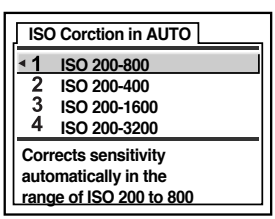
● Captured images can show more noise if higher Sensitivity is set.

Setting the Range of Automatic Correction in AUTO

■ Set range to automatically correct sensitivity when Sensitivity is set to [AUTO]. The sensitivity is automatically corrected in the range of [ISO 200- 800] by default.

1	ISO 200-800	Corrects sensitivity automatically in the range of ISO 200 to 800.
2	ISO 200-400	Corrects sensitivity automatically in the range of ISO 200 to 400.
3	ISO 200-1600	Corrects sensitivity automatically in the range of ISO 200 to 1600.
4	ISO 200-3200	Corrects sensitivity automatically in the range of ISO 200 to 3200.

■ Set in [ISO Corction in AUTO] in the [C Custom Setting] menu. (p.100)


ISO Corction in AUTO
1 ISO 200-800
2 ISO 200-400
3 ISO 200-1600
4 ISO 200-3200
Corrects sensitivity automatically in the range of ISO 200 to 800

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Setting the Recorded Pixels and Quality Level

INFORMATION

Sensitivity is not corrected in the following.

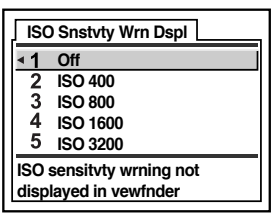
- Exposure mode is **M** (Manual) or **B** (Bulb) mode
- Flash is discharged
- Auto bracketing
- EV Compensation

ISO Sensitivity Warning Display

■ ISO Sensitivity Warning appears in the viewfinder when a sensitivity value of your choice is reached or exceeded. Set a sensitivity that is not regularly used to avoid forgetting to reset when sensitivity is raised. ISO Sensitivity Warning is not displayed by default.

1	Off	ISO Sensitivity Warning is not displayed.
2	ISO 400	ISO Sensitivity Warning is displayed when ISO 400 is set or exceeded.
3	ISO 800	ISO Sensitivity Warning is displayed when ISO 800 is set or exceeded.
4	ISO 1600	ISO Sensitivity Warning is displayed when ISO 1600 is set or exceeded.
5	ISO 3200	ISO Sensitivity Warning is displayed when ISO 3200 is set.

- Set in [ISO Snstvty Wrn Dspl] in the [**C** Custom Setting] menu. (p.100)



- **ISO** (ISO Sensitivity Warning) appears in the viewfinder when the set sensitivity is set or exceeded.

INFORMATION

- ISO Sensitivity Warning is not displayed if sensitivity is automatically corrected (p.115).

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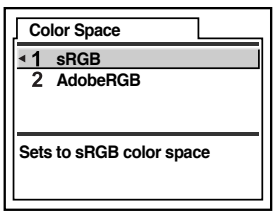
Setting the Recorded Pixels and Quality Level

Setting the Color Space

■ You can set the color space to use.
The default setting is [sRGB].

1	sRGB	Sets to sRGB color space.
2	AdobeRGB	Sets to AdobeRGB color space.

● Set in [Color Space] in the [C Custom Setting] menu. (p.101)



Color Space

Color ranges for various input/output devices, such as digital cameras, monitors, and printers, differ.
This color range is called the Color Space.
To recreate different color spaces in different devices, standard color spaces have been proposed.
This camera supports sRGB and AdobeRGB.
sRGB is mainly used for devices such as a PC.
AdobeRGB covers a wider area than sRGB and is used for occupational uses such as industrial printing. An image created in AdobeRGB may appear lighter than an image created in sRGB when output from a sRGB compatible device.

INFORMATION

● File names differ depending on the color space setting as shown below.
- For sRGB : SG1LXXXX.JPG
- For Adobe RGB : _G1LXXXX.JPG
[XXXX] is the file number and numbering continues from the last stored file number.

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Focusing

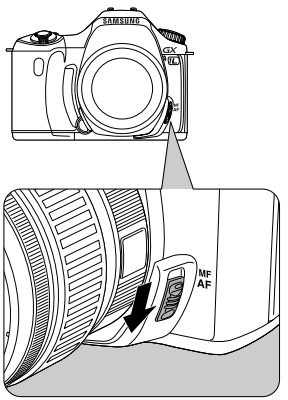
■ You can focus with the following methods.

AF	Autofocus	The camera is focused when the shutter release button is pressed halfway.
MF	Manual focus	Manually adjust the focus.

Using the Autofocus

■ You can choose the autofocus area from [Wide] and [Spot].
You can also choose the autofocus mode from **AF.S** (Single mode) Where the shutter release button is pressed halfway to focus on the subject and the focus is locked at that position, and **AF.C** (Continuous mode) where the subject is kept in focus by continuous adjustment while the shutter release button is pressed halfway.

1. Set the focus mode lever to **AF** .



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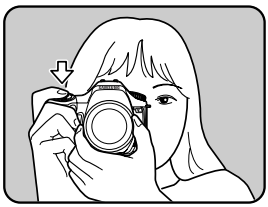
Focusing

2. Look through the viewfinder and press the shutter release button halfway.



- The focus indicator ● appears in the viewfinder when focused (if it is blinking, the subject is not in focus).
※ Hard-to-Autofocus Subjects (p.44)

Focus indicator

INFORMATION

- In AF.S (Single mode), the focus is locked (focus lock) while ● is lit. To focus on another subject, take your finger off the shutter release button first.
- During (Moving Object) mode, when the SCN mode is set to (Kids) or (Pet) or when the [AF Mode] in the [Rec. Mode] is set to AF.C (Continuous mode), focus is adjusted continuously, tracking The moving object as long as the shutter release button is kept pressed halfway.
- The shutter cannot be released until the subject is in focus in AF.S (Single mode). If the subject is too close to the camera, move back and take the picture. Adjust the focus manually if the subject is difficult to focus. (p.44), (p.125)
- In AF.S (Single mode), press the shutter release button halfway. The built-in flash will discharge automatically several times, enabling the autofocus to focus on the subject easier if the subject is in a dark area and the built-in flash is up.
- Regardless if the camera is set to AF.S (Single mode) or AF.C (Continuous mode), the camera automatically tracks the subject if it is determined to be a moving object.

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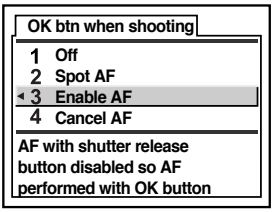
Focusing

Use the OK Button to Focus on the Subject

■ You can set the camera so that the focusing is not performed when the shutter release button is pressed halfway and is performed when the OK button is pressed.
This is useful when you wish to temporarily use autofocus while using manual focus.
Set [Enable AF] in [OK btn when shooting] in the [C Custom Setting] menu.


OK btn when shooting
1 Off
2 Spot AF
3 Enable AF
4 Cancel AF
AF with shutter release button disabled so AF performed with OK button

INFORMATION

- Only use this function with lenses that are compatible with Quick Shift Focus.
- Select [Cancel AF]. MF appears in the viewfinder while the OK button is pressed. Autofocus does not activate when the shutter release button is pressed. This is useful when you wish to temporarily use manual focus while using autofocus.
- You can focus using the focus ring and release the shutter while OK button is pressed when using a lens compatible with Quick Shift Focus. (Let go of the OK button to immediately return to AF mode.)

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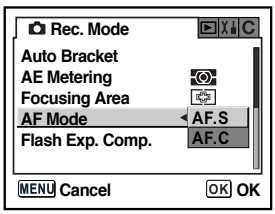
Focusing

Setting the AF Mode

■ You can choose from the following two autofocus modes. The default setting is AF.S (Single mode).

AF.S	Single mode	When the shutter release button is pressed halfway to focus on the subject, the focus is locked at that position.
AF.C	Continuous mode	The subject is kept in focus by continuous adjustment while the shutter release button is pressed halfway.

● Set [AF Mode] in the [Rec. Mode] menu (p.98).



INFORMATION

- Settings cannot be changed in Scene mode (p.45).
- AF.C (Continuous mode) can be set when the mode dial is set to P, Tv, Av, M or B. The autofocus mode is set to k in (Moving Object) of Scene mode or (Kids) or (Pet) of SCN mode.

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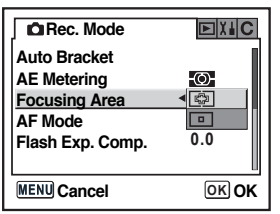
Focusing

Setting the Focusing Area

■ You can choose the area on which the autofocus focuses.
The default setting is [ ] (Wide).

[ ]	Wide	The camera targets the wide area in the center of the screen (within the focusing area) and focuses on the nearest object.
[ ]	Spot	The camera narrows the focusing area to facilitate focusing on a specific subject.

Set in [Focusing Area] in the [Rec. Mode] menu.



INFORMATION

- If [Spot AF] is selected for [OK btn when shooting] in the [C Custom Setting] menu, the camera switches to [ ] (Spot) for as long as the OK button is held down when the focusing area is set to [ ] (Wide).

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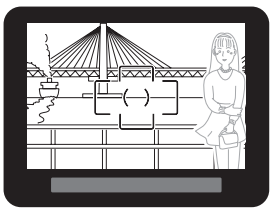
Focusing

Fixing the Focus (Focus Lock)

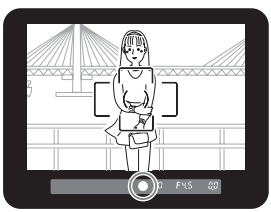
■ If the subject is outside the range of the focusing area, the camera Cannot automatically focus on the subject. In this situation, you can aim the focusing area toward the subject, use focus lock and recompose the picture.

1. Frame the desired composition for your picture in the viewfinder.
   - Use focus lock function when the subject you wish to focus on is not inside the focusing area.



(Example) The person is out of focus
and the background is focused instead.

2. Center the subject to focus in the viewfinder and press the shutter release button halfway.
   - The focus indicator ● appears and you will hear a beep when the subject comes into focus (if it is blinking, the subject is not in focus).



3. Lock the focus.
   - Keep the shutter release button pressed halfway. The focus will remain locked.

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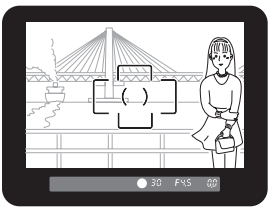
Focusing

4. Re-compose the picture while keeping the shutter release button pressed halfway.



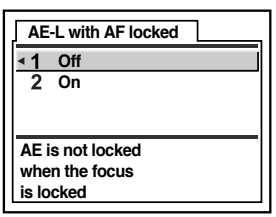
INFORMATION

- The focus is locked while the focus indicator ● is lit.
- Turning the zooming ring in focus lock mode may cause the subject to be out of focus.
- The beep can be turned off. (p.161)
- You cannot set focus lock when the [AF Mode] in the [Rec. Mode] is set to AF.C (Continuous mode), the capture mode is set to (Moving Object) or SCN mode is set to (Kids) or (Pet). In AF.C (Continuous mode), (Moving Object) mode or (Kids) or (Pet) of SCN mode, the autofocus continues to focus on the subject until the shutter is released. (Continuous Autofocus)

Fixing Exposure when Focus is Locked

■ Set [AE-L with AF locked] in the [C Custom Setting] menu (p.100) to fix the exposure value while focus is locked. Exposure is not fixed by default during focus lock.

1	Off	Exposure is not fixed when focus is locked.
2	On	Exposure is fixed when focus is locked.



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Focusing

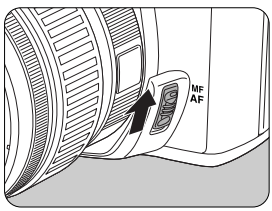
Adjusting the Focus Manually (Manual Focus)

■ When you adjust the focus manually, you can either check with the focus indicator in the viewfinder or use the viewfinder matte field to adjust focus.

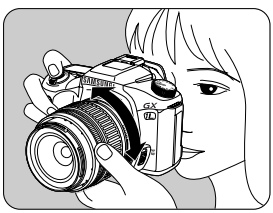
Using the Focus Indicator

■ You can manually adjust the focus using the focus indicator ● .

1. Set the focus mode lever to **MF** .



2. Look through the viewfinder, press the shutter release button halfway and turn the focusing ring.



- The focus indicator ● appears and you will hear a beep when the subject comes into focus.

Focus indicator

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Focusing

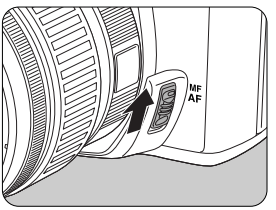
INFORMATION

- Use the matte field in the viewfinder when the subject is difficult to focus and the focus indicator will not stay lit.
- The beep can be turned off. (p.161)

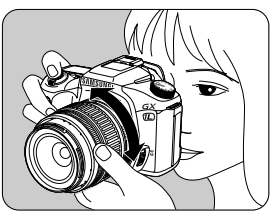
Using the Viewfinder Matte Field

■ You can manually adjust the focus using the viewfinder matte field.

1. Set the focus mode lever to **MF**.



2. Look through the viewfinder and turn the focusing ring until the subject looks sharp on the screen.



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Setting the Exposure

Effect of Aperture and Shutter Speed

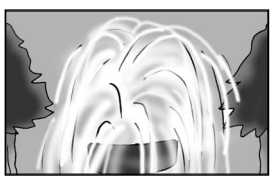
■ Correct exposure of the subject is determined by the combination of shutter speed and aperture setting. There are many correct combinations of shutter speed and aperture for a particular subject. Different combinations produce different effects.

Effect of Shutter Speed

■ The shutter speed determines the length of time that light is allowed to strike the CCD. Adjust the amount of light striking the CCD.

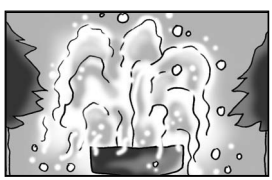
● Using slower shutter speed

If the subject is moving, the image will be blurred because the shutter is open longer.
It is possible to enhance the effect of motion (rivers, waterfalls, waves, etc.) by intentionally using a slower shutter speed.



● Using faster shutter speed

Choosing a faster shutter speed will allow freezing the action of a moving subject.
A faster shutter speed also helps preventing camera shake.



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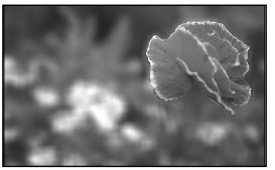
Setting the Exposure

Effect of Aperture

■ Adjust the amount of light hitting the CCD by changing the aperture.

● Opening the aperture (reduce the aperture value)

Objects closer and farther than the focused subject will be more out of focus. For instance, if you take a picture of flower against a landscape with the aperture open, the landscape in front and behind the flower will be blurred, emphasizing only the flower.



● Closing the aperture (increase the aperture value)

The range in focus expands forward and backward.
For instance, if you take a picture of flower against a landscape with the aperture narrowed, the landscape in front and behind the flower will be in focus..

Depth of Field

When you focus on a portion of the subject, there is a range in which object closer and farther will also be in focus. This focused range is called the depth of field.

- The depth of field for the GX-1L differs depending on the lens but compared to a 35 mm camera, the value is roughly one aperture setting lower (the focused range becomes narrower).
- The wider the wide-angle lens, and the farther away the subject, the wider the depth of field is (some zoom lenses do not have a scale for depth of field because of their structure).

Depth of field	Shallow	⟷	Deep
Area of focus	Narrow	⟷	Wide
Aperture	Open (Smaller value)	⟷	Close (Larger value)
Lens focal length	Longer (Telephoto)	⟷	Shorter (Wider)
Distance to the subject	Near	⟷	Far

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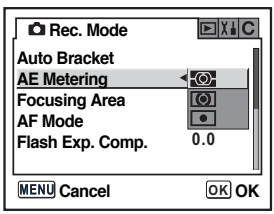
Setting the Exposure

Selecting the Metering Method

■ Choose the part of the screen to use for measuring brightness and determining exposure. (Multi-segment metering), (Center-weighted metering) or (Spot metering) mode can be selected. The default setting is (Multi-segment metering).

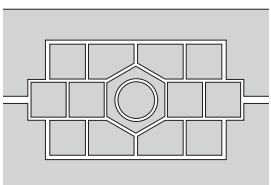
	Multi-segment metering	Segment the screen in 16 parts, meter each portion and determine the appropriate exposure.
	Center-weighted metering	Measure the entire screen with an emphasis on the center and determine the exposure.
	Spot metering	Measure only the center of the screen and determine exposure.

● Set in [AE Metering] in the [Rec. Mode] menu. (p.98)



Using the Multi-Segment Metering

■ The scene in the viewfinder is metered in 16 different zones as shown in the illustration when using the multi-segment metering. This mode automatically determines what level of brightness is in which portion.



INFORMATION

● The center-weighted metering mode is automatically set even if you select the multi-segment metering mode when using a lens other than the D-XENON lens (can only be used if permission is set in [Using aperture ring] in the [C Custom Setting] menu (p.101)).

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Setting the Exposure

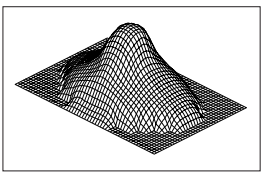
Linking AF Point and AE During Multi-Segmented Metering

In [Link AF Point and AE] (p.100) of the [C Custom Setting] menu, you can link the exposure and focus point during multi-segment metering. The default setting is [Off].

1	Off	Exposure is set separately from focus point.
2	On	Exposure is set in accordance with focus point.

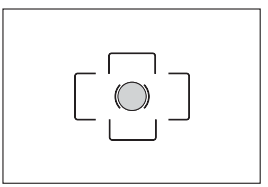
Using the Center-Weighted Metering

- Metering is weighted at the center of the screen.
  Use this metering when you want to compensate the exposure by experience, instead of leaving it to the camera.
  The illustration shows that sensitivity increases as the pattern height increases (center). This mode does not automatically compensate for backlit scenes.



Using the Spot Metering

- With spot metering, brightness is measured only within a limited area at the center of the screen as shown in the illustration.
  You can use this in combination with the AE lock (p.141) when the subject is extremely small and proper exposure is difficult to obtain.



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Setting the Exposure

Setting the Meter Operating Time

Set the metering time in [Meter Operating Time] in the [C Custom Setting] menu (p.100).
The default setting is [10sec].

1	10sec	Metering time is set to 10 seconds.
2	3sec	Metering time is set to 3 seconds.
3	30sec	Metering time is set to 30 seconds.

Changing the Exposure Mode

■ This camera features five exposure modes along with the Scene modes.
Use the mode dial (p.104) to change the exposure mode.

Exposure Mode	Description	Exposure Compen-sation	Change Shutter Speed	Change Aperture
P (Program)	Automatically sets shutter speed and aperture for taking pictures at the proper exposure.	Yes	No	No
Tv (Shutter Priority)	Lets you set a desired shutter speed for expressing moving subjects. Take pictures of fast moving subjects that look still or subjects that show movement.	Yes	Yes	No
Av (Aperture Priority)	Lets you set a desired aperture for controlling the depth of field. Use to blur the background or be sharp from front to back.	Yes	No	Yes
M (Manual)	Lets you set shutter speed and aperture to create the picture you have in mind.	No	Yes	Yes
B (Bulb)	Lets you capture images that require slow shutter speeds such as fireworks and night scenes.	No	No	Yes

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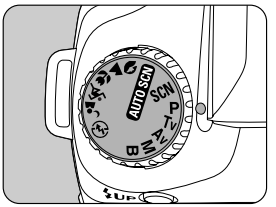
Setting the Exposure

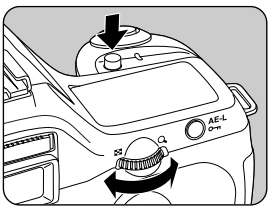
Using the P (Program) Mode

■ Shutter speed and aperture value are automatically set for taking pictures at the proper exposure. Perform the following to adjust the exposure.

1. Set the mode dial to **P** .



2. Turn the e-dial while pressing the **Av** button and adjust the exposure.



- The EV Compensation is displayed in the viewfinder and on the LCD panel.
- The shutter speed and aperture value are also displayed while adjusting the exposure.

EV Compensation

INFORMATION

- Set EV Compensation in increments of 1/2 EV or 1/3 EV. Set exposure setting steps in [Expsr Setting Steps] in the [C Custom Setting] menu. (p.141)
- You can automatically correct the sensitivity if appropriate exposure cannot be set with the set criteria. Set [Sensitivity] to [AUTO] in the Fn menu. (p.115)

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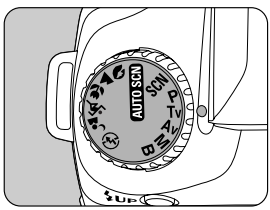
Setting the Exposure

Using the Tv (Shutter Priority) Mode

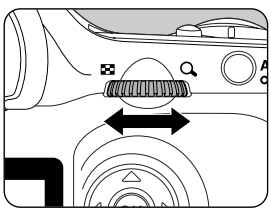
■ Set a proper shutter speed and use to express moving subjects. Set the shutter speed faster and capture fast moving subjects as if they are still or slow down the shutter and capture lively images. Aperture value is automatically set to appropriate exposure depending on the shutter speed.

※ Effect of Aperture and Shutter Speed (p.127)

1. Set the mode dial to Tv .



2. Turn the e-dial and adjust the shutter speed.



- The shutter speed and aperture value are displayed in the viewfinder and on the LCD panel.

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Setting the Exposure

INFORMATION

- Turn the e-dial while pressing the Av button and change the EV Compensation value.
- Set the shutter speed in increments of 1/2 EV or 1/3 EV. Set in [Expsr Setting Steps] in the [C Custom Setting] menu. (p.141)
- You can automatically correct the sensitivity if appropriate exposure cannot be set with the set criteria. Set [Sensitivity] to [AUTO] in the Fn menu. (p.115)

Exposure Warning

If the subject is too bright or too dark, the aperture value will blink in the viewfinder and on the LCD panel. If the subject is too bright, choose a faster shutter speed. If it is too dark, choose a slower shutter speed. When the aperture value indication stops blinking, you can take the picture with proper exposure.
If both the shutter speed and aperture value are blinking, this indicates being out of metering range and the proper exposure cannot be obtaind even if the shutter speed is adjusted.
Use an ND (Neutral Density) filter if the subject is too bright.
Use a flash if it is too dark.

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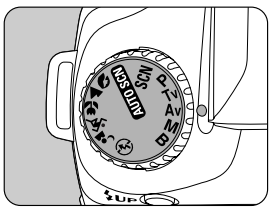
Setting the Exposure

Using the Av (Aperture Priority) Mode

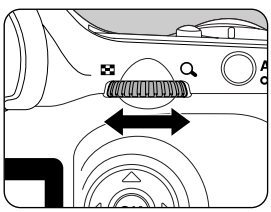
■ Set a proper aperture and use when you want to adjust the depth of field. The depth of field is deeper and the front and back of the focused object is clear when aperture is set to a large value. The depth of field is shallower and the front and back of the focused object is blurred when aperture is set to a small value.
Shutter speed is automatically set to appropriate exposure depending on the aperture value.

※ Effect of Aperture and Shutter Speed (p.127)

1. Set the mode dial to Av .



2. Turn the e-dial and adjust the aperture value.



- The shutter speed and aperture value are displayed in the viewfinder and on the LCD panel.

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Setting the Exposure

INFORMATION

- Turn the e-dial while pressing the Av button and change the EV Compensation value.
- Set the aperture value in increments of 1/2 EV or 1/3 EV. Set in [Expsr Setting Steps] in the [C Custom Setting] menu. (p.141)
- You can automatically correct the sensitivity if appropriate exposure cannot be set with the set criteria. Set [Sensitivity] to [AUTO] in the Fn menu. (p.115)

Exposure Warning

If the subject is too bright or too dark, the shutter speed will blink in the viewfinder and on the LCD panel. If the subject is too bright, set the aperture smaller (larger number), and when too dark, open the aperture further (smaller number).

Once blinking stops, you can take the picture.
If both the shutter speed and aperture value are blinking, this indicates being out of metering range and the proper exposure cannot be obtained even if the aperture is adjusted.
Use an ND (Neutral Density) filter if the subject is too bright.
Use a flash if it is too dark.

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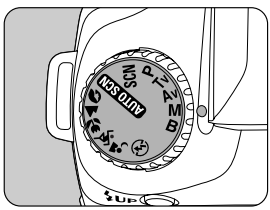
Setting the Exposure

Using M (Manual) Mode

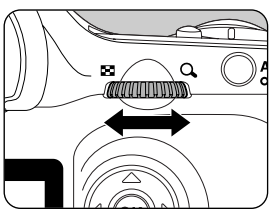
■ You can set the shutter speed and aperture value. This mode is suitable to take pictures of your choice by combining them. This mode is convenient for taking pictures using the same shutter speed and aperture setting combination or taking intentionally under-exposed (darker) or over-exposed (brighter) photographs.

※ Effect of Aperture and Shutter Speed (p.127)

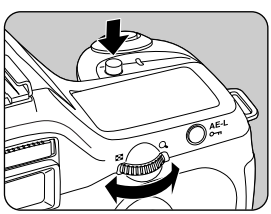
1. Set the mode dial to M .



2. Turn the e-dial and adjust the shutter speed.



3. Turn the e-dial while pressing the Av button and adjust the aperture.



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Setting the Exposure

- The shutter speed and aperture value are displayed in the viewfinder and on the LCD panel.
  Of the shutter speed and aperture, the value being adjusted is underlined in the viewfinder. While adjusting the shutter speed or aperture value, the difference with the appropriate exposure (EV value) appears at the bottom right of the viewfinder. The appropriate exposure is set when [0.0] is displayed.

Difference from the appropriate exposure

INFORMATION

- When in **M** (Manual) mode, the sensitivity is equivalent to ISO 200 when sensitivity is set to [AUTO].
- Blinks when the difference with appropriate exposure is over ±3.0.
- Set the shutter speed and aperture values in increments of 1/2 EV or 1/3 EV.
  Set in [Expsr Setting Steps] in the [**C** Custom Setting] menu. (p.141)

Exposure Warning

You are out of the measuring area if the shutter speed and aperture blink. Use an ND (Neutral Density) filter if the subject is too bright. Use a flash if it is too dark.

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Setting the Exposure

About the AE-L Button

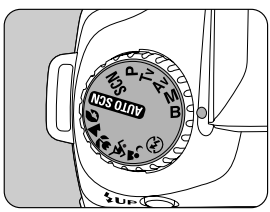
The aperture and shutter speed are automatically adjusted to the appropriate exposure at that moment if the **AE-L** button is pressed in **M** (Manual) mode. You can choose from the following three adjustment methods in [AE-L bttn on M expsr] in the [**C** Custom Setting] menu.

1	Program Line	The aperture and shutter speed are adjusted automatically.
2	Tv Shift	The aperture is locked and the shutter speed is adjusted automatically.
3	Av Shift	The shutter speed is locked and the aperture is adjusted automatically.

Using the B (Bulb) Mode

■ This mode is useful for the long exposures required for shooting night scenes and fireworks. The shutter remains open as long as the shutter release button is kept pressed.

1. Set the mode dial to **B** .



INFORMATION

- Turn the e-dial to adjust the aperture value.
- Set the aperture value in increments of 1/2 EV or 1/3 EV. Set in [Expsr Setting Steps] in the [**C** Custom Setting] menu. (p.141)
- Use a sturdy tripod and the cable switch SSR-D1 (optional) to prevent camera shake when using **B** (Bulb) mode. Connect the cable switch to the cable switch terminal.
- Bulb shooting is available when using the remote control shooting mode (p.59). The shutter remains open as long as the optional remote control' s shutter release button is held down.
- Noise reduction is a process to reduce noise (image roughness or unevenness) caused by low shutter speed. Set in [Noise Reduction] in the [**C** Custom Setting] menu. (p.100)
- When in **B** (Bulb) mode, the sensitivity is equivalent to ISO 200 when sensitivity is set to [AUTO].

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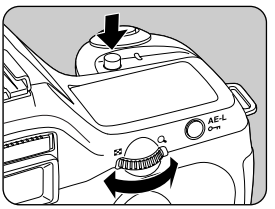
Setting the Exposure

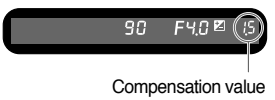
Setting the Exposure

■ This allows you to deliberately over-expose (brighten) or under-expose (darken) your picture. You can adjust the EV Compensation from -2 to +2 (EV) in increments of 1/2 EV or 1/3 EV. Set in [Expsr Setting Steps] in the [C Custom Setting] menu. (p.141)

1. Set the compensation with the e-dial while the Av button is pressed.



2. Confirm the compensation value in the viewfinder.
   - is displayed during compensation.
   - blinks when the flash is popped up if the flash compensation is set.



INFORMATION

- Exposure compensation is not available when the exposure mode is set to M (Manual) or B (Bulb) mode.
- The exposure compensation cannot be canceled by turning the camera off or by setting any other exposure mode.

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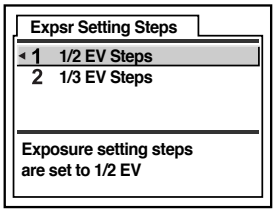
Setting the Exposure

Changing the Exposure Setting Steps

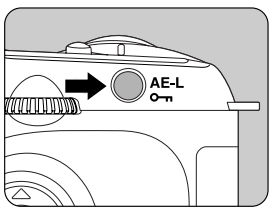
■ Set Exposure Setting Steps in [Expsr Setting Steps] in [C Custom Setting] to increments of 1/2 EV or 1/3 EV.



Recording the Exposure Before Shooting (AE Lock)

■ AE Lock is a function that memorizes the exposure prior to taking the picture. Use this when the subject is too small or backlit and a proper exposure setting cannot be obtained.

1. Press the **AE-L** button.
   - The camera memorizes the exposure (brightness) at that instant.
     Press it again to unlock.



INFORMATION

- ✱ is displayed in the viewfinder while the AE lock is engaged. (p.18)
- The exposure remains in memory for twice as much time as the metering timer after releasing the **AE-L** button. The exposure remains locked as long as the **AE-L** button is kept pressed or the shutter release button is kept pressed halfway.
- You will hear a beep when the **AE-L** button is pressed. The beep can be turned off. (p.161)
- AE lock is not available when the exposure mode is **M** (Manual) or **B** (Bulb) mode.
- The combination of shutter speed and aperture value changes depending on the zooming position even while the AE lock is engaged when using a zoom lens for which maximum aperture varies depending on the focal length. However, the exposure value does not change and the picture is taken at the brightness level set by the AE lock.
- If the exposure mode is **M** (Manual), the aperture and/or shutter speed are automatically adjusted to set the appropriate exposure when the **AE-L** button is pressed. (p.137)
- Exposure can be fixed when focus is locked. Set in [AE-L with AF locked] in the [**C** Custom Setting] menu. (p.124)

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Setting the Exposure

Changing the Exposure and Shooting (Auto Bracket)

■ You can take continuous pictures with different exposure when the shutter release button is pressed. The first frame is exposed with no compensation, the second frame is under-exposed (negative compensation) and the third is over-exposed (positive compensation).

[Normal exposure]

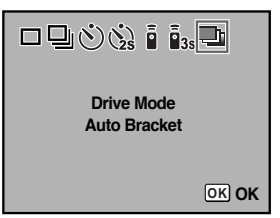
[Under-exposure]

[Over-exposure]

1. Press the **Fn** button in capture mode.
   - The Fn menu appears.

2. Press the four-way controller (▲).
   - The Drive Mode options screen appears.

3. Use the four-way controller (▶) to select (Auto Bracket).



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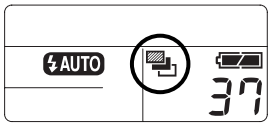
4. Press the OK button. The screen returns to the Fn menu.

5. Press the Fn button. The camera is ready to take a picture.
   - Shooting is ready and is displayed on the LCD panel.



6. Press the shutter release button halfway.
   - Focus indicator ● appears in the viewfinder when focused.

7. Press the shutter release button fully.
   - Three continuous pictures will be taken, the first with no compensation, the second with negative compensation, and the third with positive compensation.

INFORMATION

- When the focus mode is set to AF.S (Single mode), the focus is locked in the first frame position and used for subsequent continuous frames.
- The auto bracketing exposure setting will remain effective for twice as much time as the exposure metering timer (default setting is 20 seconds)
  when you release your finger from the shutter release button during auto bracketing, and you can take the next picture at the next compensation value.
  In this case, auto focusing works for each frame. After about twice as much time as the exposure metering timer (default setting is 20 seconds), the camera returns to settings for taking the first picture.
- You can combine Auto Bracket with the built-in flash or external flash (P-TTL auto only) to change only the flash output continuously. However, when using an external flash, holding the shutter release button down to take three continuous frames may cause the second and third frame to be taken before the flash is fully recharged. Always take one frame at a time after confirming that charging is complete.
- Auto Bracket is not available when the exposure mode is set to B (Bulb) mode.

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Setting the Exposure

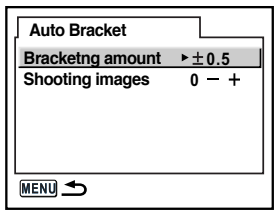
Setting Auto Bracket

■ Change the shooting order and steps of Auto Bracket.

Bracketng amount (Step interval)	1/2 EV	±0.5, ±1.0, ±1.5, ±2.0
	1/3 EV	±0.3, ±0.7, ±1.0, ±1.3, ±1.7, ±2.0
Shooting images		0 → - → +, - → 0 → +, + → 0 → -

※ Set interval of steps in [Expsr Setting Steps] in the [C Custom Setting] menu. (p.141)

● Set in [Auto Bracket] in the [Rec. Mode] menu. (p.98)



Taking Only Over-exposed or Under-exposed Pictures

You can use the auto bracketing mode for only under-exposure or over-exposure shots by combining the operation with exposure compensation (p.140). The auto bracketing is performed in both cases on the basis of the specified exposure compensation value.

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Checking the Composition, Exposure and Focus Before Shooting

■ You can use the preview function to check the depth of field, composition, exposure and focus before taking a picture. There are 2 preview methods.

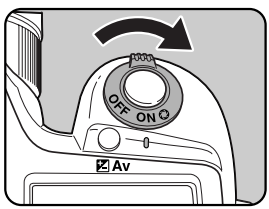
Digital Preview	For checking the composition, exposure and focus in the LCD monitor.
Optical Preview	For checking the depth of field with the viewfinder.

Select the preview method in [Preview Method] in the [C Custom Setting] menu (p.101). The default setting is [Digital Preview]

■ Displaying the Preview
Display the digital preview or optical preview.

Displaying the Digital Preview

■ Focus on the subject, then compose the picture in the viewfinder and move the main switch to .



The ( ) icon appears in the LCD monitor during preview and you can check the composition, exposure and focus.
Press the shutter release button halfway to end Digital Preview and start focusing. The image displayed in Digital Preview is not saved.

INFORMATION

- You can display the overexposed area warning or histogram in Digital Preview. Set in [Preview Display] (p.98) in the [Playback] menu.
- The maximum display time for Digital Preview is 60 seconds.

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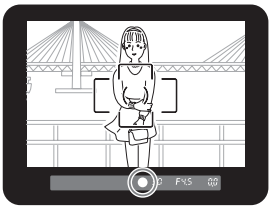
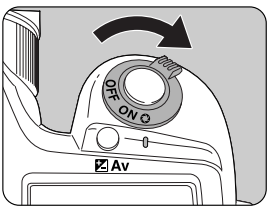
Checking the Composition, Exposure and Focus Before Shooting

Displaying the Optical Preview

1. Position the subject inside the AF frame and press the shutter release button halfway.



2. Turn the main switch to ⟲ while looking through the viewfinder.
   - You can check the depth of field in the viewfinder while the main switch is on ⟲.



INFORMATION

- No shooting information is displayed in the viewfinder, and the shutter cannot be released while the main switch is in the preview position (⟲).
- You can check the depth of field in all exposure modes.

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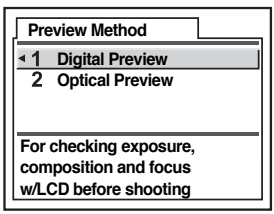
Checking the Composition, Exposure and Focus Before Shooting

Selecting the Preview Method

■ Choose the preview method to use when the main switch is turned to the preview position ( ). The default setting is Digital Preview.

Digital Preview	For checking the composition, exposure and focus in the LCD monitor before taking a picture.
Optical Preview	For checking the depth of field with the viewfinder.

Set in [Preview Method] in the [C Custom Setting] menu.



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Using the Built-in Flash

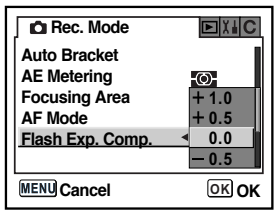
Compensating Flash Output

■ You can change the flash output in a range of -2.0 to +1.0. The Flash Compensation values are as follows for 1/2 EV and 1/3 EV.

Step interval	Flash Compensation
1/2 EV	-2.0, -1.5, -1.0, -0.5, 0.0, +0.5, +1.0
1/3 EV	-2.0, -1.7, -1.3, -1.0, -0.7, -0.3, 0.0, +0.3, +0.7, +1.0

※ Set interval of steps in [Expsr Setting Steps] in the [C Custom Setting] menu. (p.141)

● Set in [Flash Exp. Comp.] in the [Rec. Mode] menu. (p.98)



INFORMATION

- blinks in the viewfinder when the flash pops up during Flash Compensation. (p.19)
- If the maximum flash output is exceeded when corrected to the plus (+) side, no compensation will be effective.
- Compensating to the minus (-) side may not effect the image if the subject is too close, aperture is low or sensitivity is high.
- This flash compensation is also effective for external flash units which support P-TTL auto flash mode.

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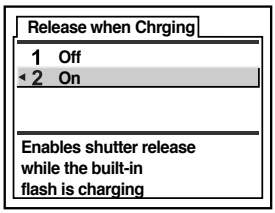
Using the Built-in Flash

Allowing Shooting while Charging Flash

■ You can set to enable shooting while flash is being charged. Set [On] for [Release when Chrging] in the [C Custom Setting] menu (p.101). Pictures cannot be taken while the flash is charging by default.



Flash Characteristics in Each Exposure Mode

■ Using the Flash in Tv (Shutter Priority) Mode

- When taking a moving subject, you can use the flash to change the blur effect.
- Any desired shutter speed 1/180 sec. or slower can be set for taking a flash photograph.
- The aperture value automatically changes according to the ambient brightness.

■ Using the Flash in Av (Aperture Priority) Mode

- You can set the desired aperture to take a flash photograph when you want to change the depth of field or shoot a subject farther away.
- The shutter speed automatically changes with the ambient brightness.
- The shutter speed shifts automatically anywhere from 1/180 sec. to a slow shutter speed that reduces camera shake. The slowest shutter speed depends on the focal length of the lens in use.

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Using the Built-in Flash

Using Slow-Speed-Sync

■ You can use slow-speed-sync when shooting portraits with the sunset in the background. Both the portrait and the background are captured beautifully.

INFORMATION

- Slow-speed-sync slows the shutter speed. Use a tripod to avoid camera shake. The picture will also blur if the subject moves.
- Slow-speed-sync shooting can also be performed with an external flash.

■ Using Tv (Shutter Priority) Mode

1. Set the mode dial to Tv .
   Tv (Shutter Priority) mode is set.
2. Use the e-dial to set the desired shutter speed.
   The background is not properly corrected if aperture value is flashing when shutter speed is set. Set the shutter speed so that aperture does not flash.
3. Press the ϟUP button.
   The flash pops up.
4. Take the picture.

■ Using M (Manual) Mode

1. Set the mode dial to M .
   M (Manual) mode is set.
2. Set the shutter speed (under 1/180 sec.) and aperture value to obtain correct exposure.
3. Press the ϟUP button.
   The flash pops up.
   In M (Manual) mode, pop up the flash at any time.
4. Take the picture.

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Using the Built-in Flash

Distance and Aperture when Using the Built-in Flash

■ A set criteria is necessary between the guide number, aperture and distance when shooting with the flash. Calculate and adjust the shooting conditions if flash is not sufficient.

● Built-in flash guide number

Sensitivity	Built-in flash guide number
ISO 200	15.6
ISO 400	22
ISO 800	31
ISO 1600	44
ISO 3200	62

Calculating Shooting Distance from Aperture Value

■ The following equation calculates the distance of the flash for aperture values.
Maximum flash distance L1 = Guide number ÷ Selected aperture
Minimum flash distance L2 = Maximum flash distance L1 ÷ 5*

* The value 5 used in the formula above is a fixed value which applies only when using the built-in flash alone.

Example)
When sensitivity is [ISO 200] and aperture value is F4
L1 = 15.6 ÷ 4 = approx. 3.9 (m)
L2 = 3.9 ÷ 5 = approx. 0.8 (m)
Therefore, the flash can be used in a range of about 0.8 m to 3.9 m.
The flash cannot be used when the distance is less than 0.7 m. When the flash is used at closer than 0.7 m, it causes vignetting in the picture corners, light is distributed unevenly and the picture may be over-exposed.

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Calculating Aperture Value from Shooting Distance

■ The following equation calculates the aperture value for shooting distances.

Aperture Value Used F = Guide number ÷ Shooting distance

When sensitivity is [ISO 200] and shooting distance is 5.2 m, aperture value is:
F = 15.6 ÷ 5.2 = 3
If the resulting number (3, in the above example) is not available as a lens aperture, the smaller number that is closest (2.8, in the above example) is generally used.

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Using an External Flash (Optional)

■ Using the optional external flash SEF-36PZF enables a variety of flash modes, such as P-TTL auto flash mode, high-speed flash sync mode, and wireless mode. See the chart below for details.
(Yes: Available #: Restricted No: Not available)

■ See the SEF-36PZF operating manual for details.

※ When using an external flash, it is recommended to use the high-precision SEF-36PZF, as it is capable of P-TTL auto flash mode.

Camera Function \ Flash	Built-in Flash	SEF-36PZF
Red-eye reduction flash	Yes	Yes
Automatic flash discharge	Yes	Yes
After the flash is charged, the camera automatically switches to the flash sync speed.	Yes	Yes
Aperture is automatically set in P (Program) mode and Tv (Shutter Priority) mode.	Yes	Yes
P-TTL auto flash (appropriate sensitivity: 200 to 3200)	Yes	Yes
Slow-speed sync	Yes	Yes
Flash exposure compensation	Yes	Yes
AF illuminator	Yes	Yes
Rear curtain sync flash*1	#*2	Yes
Contrast-control-sync flash mode	#*3	Yes
Slave flash	No	Yes
High-speed flash sync	No	Yes
Wireless flash*4	No	Yes

*1 : Shutter speed of 1/90 sec. or slower.
*2 : Can be combined with SEF-36PZF for rear curtain sync flash.
*3 : When combined with the SEF-36PZF, 1/3 of the flash discharge can be output by the built-in flash and 2/3 can be output by the external flash.
*4 : Two or more SEF-36PZF units are required.

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Using an External Flash (Optional)

About the LCD Panel Display for SEF-36PZF

■ The SEF-36PZF will automatically convert the field angle differential between 35 mm format and the GX-1L depending on the focal length of the lens you are using (when using D-XENON lenses). The conversion indicator appears and the format size indicator disappears when the exposure metering timer of the GX-1L is on (it returns to 35 mm format display when the exposure metering timer is turned off).

Lens focal length		85mm	77mm	50mm	35mm	28mm	24mm	20mm	18mm
SEF-36PZF LCD panel	Exposure metering timer Off	85mm		70mm	50mm	35mm		28mm	24mm*
	Exposure metering timer On	58mm		48mm	34mm	24mm		19mm	16mm*

* Using wide adaptor

Using P-TTL Auto Mode

■ Use this flash mode with the SEF-36PZF flash unit. When flash mode is set to “P-TTL auto”, the flash pre-fires right before taking pictures using 16-segment metering and allows more precise control. P-TTL auto is available in wireless flash mode when two or more SEF-36PZF units are used.

1. Remove the cover of the hot shoe and attach the SEF-36PZF.
2. Turn on the SEF-36PZF.
3. Set the SEF-36PZF flash mode to P-TTL auto.
4. Confirm that the SEF-36PZF is fully charged and then take the picture.

INFORMATION

- P-TTL auto is only available with the SEF-36PZF flash unit.
- The ϟ will light in the viewfinder when the flash is ready (fully charged).
- For details such as operation method and effective distance, please read the external flash manual.
- The flash does not discharge when the subject is bright enough when Flash Mode is AUTO or ϟA. Therefore, it may not suitable for daylight-sync shooting.
- Never press the flash pop up button when any external flash unit is attached to the camera. The built-in flash will hit the external flash.
- See the SEF-36PZF operating manual for details.

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Using an External Flash (Optional)

Using High-Speed Flash Sync Mode

■ With the SEF-36PZF, you can discharge the flash to take a picture at a shutter speed faster than 1/180 second. High-speed flash sync can be used with the flash attached to the camera, or wireless.

● Attaching and Using the SEF-36PZF on the Camera

1. Remove the hot shoe cover and attach the SEF-36PZF.
2. Turn the mode dial and set the exposure mode to **Tv** or **M** .
3. Turn on the SEF-36PZF.
4. Set the SEF-36PZF sync mode to HS (high-speed flash sync.).
5. Confirm that the SEF-36PZF is fully charged and then take the picture.

INFORMATION

- The ϟ will light in the viewfinder when the flash is ready (fully charged).
- High-speed flash sync is only available when the shutter speed is faster than 1/180 sec.
- High-speed flash sync is not available when the exposure mode is set to **B** (Bulb).
- See the SEF-36PZF operating manual for details.

Using in Wireless Mode

■ Shoot using the flash without connecting the camera and flash with a cord by using two SEF-36PZF units.The High-speed sync mode is also available in wireless mode.

INFORMATION

- Be sure to set the two SEF-36PZF units to the same channel. See the SEF-36PZF operating manual for details.

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Using an External Flash (Optional)

- Using in Wireless Mode
  1. Place the SEF-36PZF at the desired location.
  2. Set the SEF-36PZF power switch to [WIRELESS].
  3. Set the SEF-36PZF wireless mode to S (Slave).
  4. Turn the camera mode dial and set the exposure mode to **P** , **Tv** , **Av** or **M** mode.
  5. Set the SEF-36PZF power switch on the camera to [WIRELESS].
  6. Set the SEF-36PZF wireless mode on the camera to **M** (Master) or **C** (Control).

INFORMATION

- Wireless mode is not available for the built-in flash.
- Set the SEF-36PZF wireless slave mode to SLAVE1.
- See the SEF-36PZF operating manual for details.

Wireless Flash Control (P-TTL Flash Mode)

The following information is exchanged between the two SEF-36PZF flash units before the flash is discharged when the SEF-36PZF is used for wireless flash.
Press the shutter release button fully.

1. The camera' s flash discharges a pre-flash (the camera' s flash mode is transmitted).
2. The external flash unit discharges a pre-flash (the subject' s lighting condition is checked).
3. The camera' s flash unit discharges a pre-flash (the required flash output is transmitted to the external flash).
   ※ The camera' s flash will discharge another pre-flash to transmit the flash duration in HS (High-speed sync).
4. The external flash discharges the main flash.
   ※ Set the SEF-36PZF wireless slave mode to SLAVE1.

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Using an External Flash (Optional)

Red-Eye Reduction

■ As with the built-in flash, red-eye reduction is available with an external flash.

INFORMATION

- The red-eye reduction feature works even when only an external flash is used. (p.52)
- If red-eye reduction is used when the SEF-36PZF is set as the slave unit or with the wireless function, the preflash for red-eye reduction will trigger the external flash. Do not use red-eye reduction when using a slave unit.
- See the SEF-36PZF operating manual for details.

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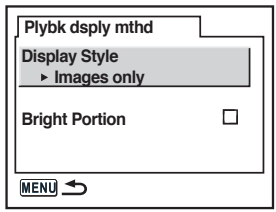
Settings During Playback

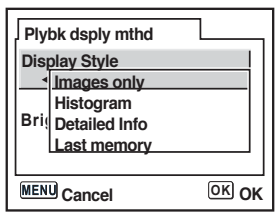
Changing Playback Display Method

■ Sets the information to show first during playback and whether to Display overexposed area warning. The camera switches display information when you press the **INFO** button.

1. Select [Plybk dsply mthd] on the [▶ Playback] menu.
2. Press the four-way controller (▶). The screen for setting the Playback display method appears.



3. Use the four-way controller (▶) to select [Display Style].
4. Use the four-way controller (▲▼) to select the information to show.



Images only	Only captured images are displayed.
Histogram	Images and histogram are displayed.
Detailed Info	Shooting information appears with a small image in the upper left.
Last memory	Display settings are retained from previous session.

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5. Press the OK button. The selected information setting is saved.

6. Use the four-way controller (▼) to select [Bright Portion].

7. Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).

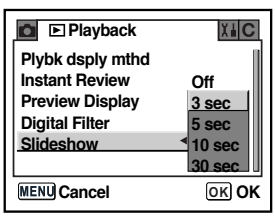
8. Press the MENU button twice. The camera is ready to take a picture.

INFORMATION

● Refer to p.16 for various display information details.

Setting the Slideshow Display Interval

■ You can play back all images recorded on your SD Memory Card successively. (p.68)
Set image display interval to [3 sec], [5 sec], [10 sec] or [30 sec].
The default setting is [3 sec].
Set in [Slideshow] in the [▶ Playback] menu (p.98).



※ After setting, press the OK button to start slideshow.

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Camera Settings

Formatting the SD Memory Card

■ Be sure to format new SD Memory Card with the camera before using the card.
Formatting will delete all the data on the SD Memory Card.

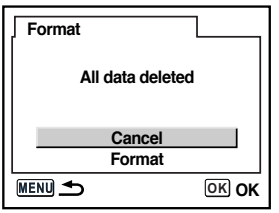
INFORMATION

- Do not open the card cover while formatting SD Memory Card. The card may be damaged beyond use.
- Formatting will delete protected data. Be aware.

1. Select [Format] on the [Set-up] menu (p.99).

2. Press the four-way controller (▶) to display the Format screen.

3. Use the four-way controller (▲) to select [Format].



4. Press the **OK** button.
Formatting starts. When formatting is completed, the camera is ready to take pictures.

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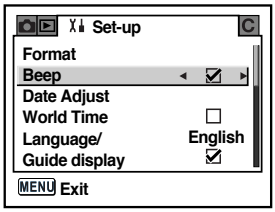
Camera Settings

Turning the Beep On and Off

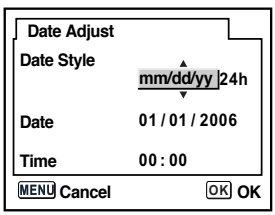
■ You can turn the camera operation beep on or off.
The default setting is [On].
Set in [Beep] in the [Set-up] menu. (p.99)



Changing the Date and Time and the Display Style

■ You can change the initial date and time settings.
You can also set the display style. Choose [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd]. Choose [12h (12 hour)] or [24h (24 hour)] for time display method.

- Setting the Date and Time (p.33)



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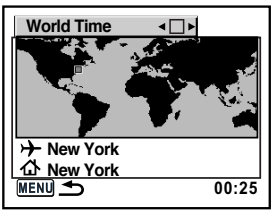
Camera Settings

Setting the World Time

■ The date and time selected in “Initial Settings” (p.31) serve as the date and time of your present location.
Setting [World Time] enables you to display the local date and time on the LCD monitor when traveling overseas.

1. Select [World Time] on the [Set-up] menu. (p.99)

2. Press the four-way controller (▶).
The World Time screen appears.



3. Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).

☑	Applies time of city set in ✈ (Destination)
☐	Applies time of city set in ⌂ (Hometown)

4. Press the four-way controller (▼).
The selection frame moves to ✈. The city with ✈ blinks.

5. Press the four-way controller (▶).
The screen for magnifying the Destination region appears.
Use the four-way controller (◀▶) to change the region to magnify.

6. Press the four-way controller (▼).
The frame moves to city.

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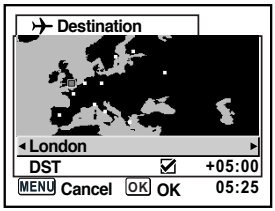
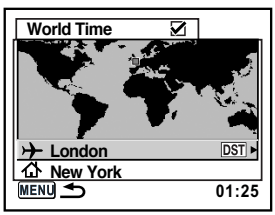
7. Use the four-way controller (◀▶) to select the Destination city.
   The current time, location and time difference of the selected city appears.



8. Use the four-way controller (▼) to select [DST].

9. Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).
   Select ☑ (On) if the Destination city uses daylight saving time (DST).

10. Press the **OK** button.
    The World Time setting is saved.
    To continue with World Time setting operations, press the **OK** button to return to the World Time screen.



11. Press the **MENU** button twice.
    The camera is ready to take pictures.

INFORMATION

- See "List of World Time Cities" (p.164) for cities that can be specified as a destination.
- Select ⌂ in Step 4 to set the city and DST setting.
- ✈ appears on the guide display screen if World Time is On (☑). (p.14)

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List of World Time Cities

Region	City
North America	Honolulu
	Anchorage
	Vancouver
	San Francisco
	Los Angeles
	Calgary
	Denver
	Chicago
	Miami
	Toronto
	New York
	Halifax
Central and South America	Mexico City
	Lima
	Santiago
	Caracas
	Buenos Aires
	Sao Paulo
	Rio de Janeiro
Europe	Madrid
	London
	Paris
	Amsterdam
	Milan
	Rome
	Berlin
	Stockholm
	Athens
	Helsinki
	Moscow
Africa/ West Asia	Dakar
	Algiers
	Johannesburg
	Istanbul
	Cairo
	Jerusalem

Region	City
Africa/ West Asia	Nairobi
	Jeddah
	Tehran
	Dubai
	Karachi
	Kabul
	Male
	Delhi
	Colombo
	Katmandu
	Dacca
East Asia	Yangon
	Bangkok
	Kuala Lumpur
	Vientiane
	Singapore
	Phnom Penh
	Ho chi Minh
	Jakarta
	Hong Kong
	Beijing
	Shanghai
	Manila
	Taipei
	Seoul
	Tokyo
	Guam
Oceania	Perth
	Adelaide
	Sydney
	Noumea
	Wellington
	Auckland
	Pago Pago

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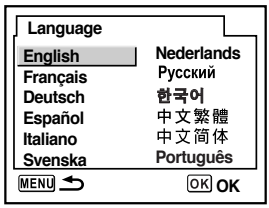
Camera Settings

Setting the Display Language

■ You can change the language in which the menus, error messages, etc. are displayed.
Set in [Language] in the [Set-up] menu. (p.99)
You can choose from eleven languages: English, French, German, Spanish, Italian, Swedish, Dutch, Russian, Korean, Chinese (Traditional/ Simplified) and Portuguese.

- Setting the Display Language (p.31)

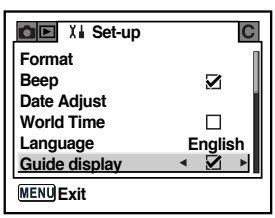


Turning the Guide Display On and Off

■ Set to display guides on the LCD monitor when main switch is on or Exposure mode is changed. (p.14)

☑	Guide display on
☐	Guide display off

● Set in [Guide display] in the [Set-up] menu. (p.99)



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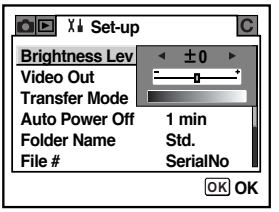
Camera Settings

Adjusting the Brightness of the LCD Monitor

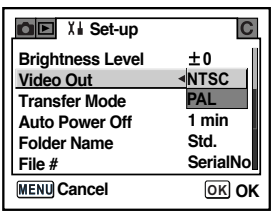
■ You can adjust the brightness of the LCD monitor.
Adjust settings when the LCD monitor is hard to see.
Set in [Brightness Level] in the [Set-up] menu. (p.99)



Selecting the Video Output Format

■ When you connect the camera to AV equipment such as a TV, choose the appropriate video output format (NTSC or PAL) for playing back images.
Set in [Video Out] in the [Set-up] menu. (p.99)

- Connecting the Camera to AV Equipment (p.70)



INFORMATION

● The video output format varies according to region. The video output format used in North America is NTSC.

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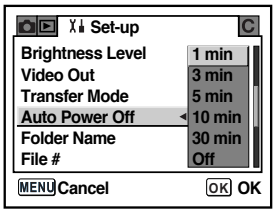
Camera Settings

Setting Auto Power Off

■ You can set the camera to turn off automatically if unused after a certain length of time.
Select from [1 min], [3 min], [5 min], [10 min], [30 min] or [Off].
The default setting is [1 min].
Set in [Auto Power Off] in the [Set-up] menu. (p.99)



INFORMATION

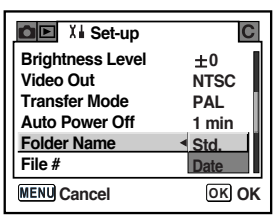
● Auto Power Off will not work during slideshow playback, a USB connection, remote control shooting or while displaying menu or Fn menu.

Selecting the Folder Name

■ You can select the method for assigning the folder names for Storing images. The default setting is [Std.].

Std.	The folder name is assigned in the form of [XXXSSCAM].[XXX] is a sequential number from 100 to 900. (Example) 100SSCAM.
Date	The two digits of the [month] and [day] on which the picture was taken are assigned as the folder name in the form of [XXX_MMDD]. (Example) 100-0101: for folders with pictures taken on January First.

● Set in [Folder Name] in the [Set-up] menu. (p.99)



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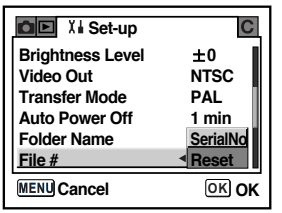
Camera Settings

Resetting the File Number

■ You can set the File Number used for the images when inserting a new SD Memory Card.
The default setting is [SerialNo].

SerialNo	The file number for the most recently captured image is placed in memory and the file number will remain continuous after inserting the new SD Memory Card.
Reset	Every time a new SD Memory Card is inserted, the file number is the smallest number. When an SD Memory Card with stored images is inserted, numbering continues from the last stored file number.

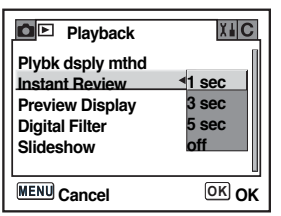
● Set in [File #] in the [Set-up] menu. (p.99)



■ Setting the Display Instant Review and Digital Preview
You can perform the settings related to Instant Review and Digital Preview.

Setting the Display Time of the Instant Review

■ Select from [1 sec], [3 sec], [5 sec] or [Off]. The default setting is [1 sec]. Set in [Instant Review] in the [Playback] menu. (p.98)



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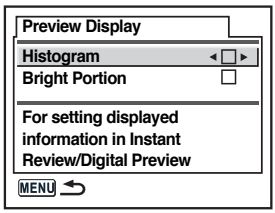
Camera Settings

Displaying Histogram and Bright Portion

■ Set to display histogram and bright portion during Instant Review And Digital Preview. Set in [Preview Display] in the [▶ Playback] menu. In the default setting, the histogram and overexposed area warning do not appear.

1. Select [Preview Display] in the [▶ Playback] menu.



2. Press the four-way controller (▶). The screen for setting the Preview Display appears.

3. Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off) for [Histogram].

☑	The histogram is displayed in the Instant Review and Digital Preview screens.
☐	The histogram is not displayed.

4. Use the four-way controller (▼) to select [Bright Portion].

5. Use the four-way controller (◀▶) to select ☑ (On) or ☐ (Off).

☑	The overexposed area warning is displayed in the Instant Review and Digital Preview screens.
☐	The overexposed area warning is not displayed.

6. Press the **MENU** button twice.
The camera is ready to take a picture.

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Resetting to Default Settings

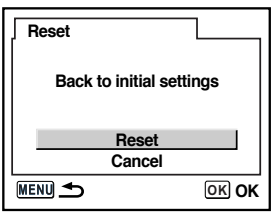
Resetting Rec. Mode/ Playback/ Set-up Menu

■ Settings in [Rec. Mode] menu, [Playback] menu and [Set-up] menu are reset to default settings.
However, Date Adjust, Language, Video Out and World Time are not reset.

1. Select [Reset] on the [Set-up] menu.

2. Press the four-way controller (▶) to display the [Reset] screen.

3. Use the four-way controller (▲) to select [Reset].



4. Press the OK button.
The camera is ready to take or play back images.

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Resetting to Default Settings

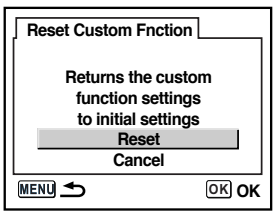
Resetting the Custom Function Menu

■ Reset settings in [C Custom Setting] menu to default settings.
Settings in [Rec. Mode] menu, [Playback] menu and [Set-up] menu are not reset.

1. Select [Reset] on the [C Custom Setting] menu.

2. Press the four-way controller (▶) and display the Reset Custom Fnction screen.

3. Use the four-way controller (▲) to select [Reset].



4. Press the OK button.
The camera is ready to take or play back images.

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MEMO

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6 Software information

Explains software installation and how to use the program.

Software Notes 174
About the software 175
Setting up the application software 176
Starting PC mode 177
Removable Disk 178
Removing the removable disk 180
Digimax Master 182

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Software Notes

Please ensure that you read the instruction manual carefully before use.

- The attached software is a camera driver and image editing software tool for Windows.
- Under no circumstances should all or part of either the software or the user manual be reproduced.
- Copyrights for software are licensed only for use with a camera.
- In the unlikely event of a manufacturing fault, we will repair or exchange your camera. We cannot, however, be held responsible in any way for damage caused by inappropriate use.
- Using a Hand-made PC or a PC and OS that has not been guaranteed by the manufacturer is not covered by the Samsung warranty.
- Before reading this manual, you should have a basic knowledge of computers and O/S (Operating Systems).

System Requirements

For Windows	For Macintosh
PC with processor better than Pentium II 450Mz (Pentium 700MHz recommended)	Power Mac G3 or later
Windows 2000/ME/XP	Mac OS 9.0 or later
Minimum 256MB RAM (512MB recommended) 250MB of available hard disk space (1GB recommended)	Minimum 256MB RAM 250MB of available hard-disk space
USB port	USB port
CD-ROM drive	CD-ROM drive
1024x768 pixels, 16-bit colour display compatible monitor (24-bit colour display recommended)	

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About the software

■ Digimax Master : This is the all-in-one multi media software solution
You can download, view, edit and save your digital images (RAW, JPEG) with this software. This software is only compatible with Windows.

INFORMATION

- You should allow 5~10 seconds for running the automatic setup program according to the capability of your computer. If the frame does not show, run the [Windows Explorer] and select [setup.exe] in the CD-ROM Drive root directory.
- PDF documents of user manual are included in the Software CD-ROM supplied with this camera. Search the PDF files with Window' s explorer. Before opening the PDF files, you must install the Adobe Reader included in the Software CD-ROM.

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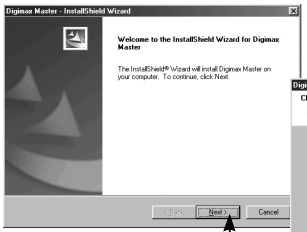
Setting up the application software

■ To use this camera with a PC, install the application software first.
After this has been done, the stored images in the camera can be moved to the PC and can be edited by an image editing program.

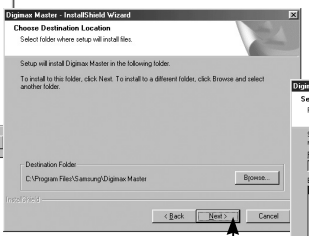
■ You can visit the Samsung web-site through the internet.

http://www.samsungcamera.com : English
http://www.samsungcamera.co.kr : Korean

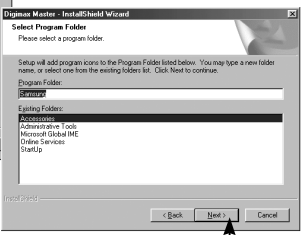
1. Install the Digimax Master as the instructions shown on your PC monitor.


Digimax Master - InstallShield Wizard
Welcome to the InstallShield Wizard for Digimax Master
The InstallShield® Wizard will install Digimax Master on your computer. To continue, click Next.
< Back
Next >
Cancel

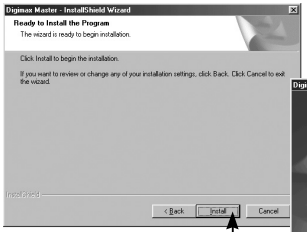
[Click!]


Digimax Master - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Setup will install Digimax Master in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Samsung\Digimax Master
Browse...
InstallShield
< Back
Next >
Cancel

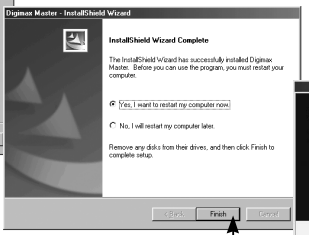
[Click!]


Digimax Master - InstallShield Wizard
Select Program Folder
Please select a program folder.
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.
Program Folder:
Samsung
Existing Folders:
Accessories
Administrative Tools
Microsoft Global IME
Online Services
StartUp
InstallShield
< Back
Next >
Cancel

[Click!]


Digimax Master - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

[Click!]


Digimax Master - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Digimax Master. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

[Click!]

[Click!]

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2. After restarting the computer, connect the PC to the camera with the USB cable.

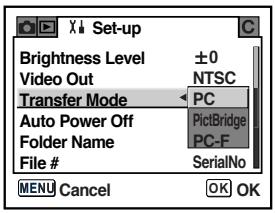
3. Turn the camera power on.
   The [Found New Hardware Wizard] will open and the computer will recognize the camera.
   ※ If your OS is Windows XP, an image viewer program will open.
   If the download window of Digmax Master opens after starting Digimax Master, the camera driver was setup successfully.

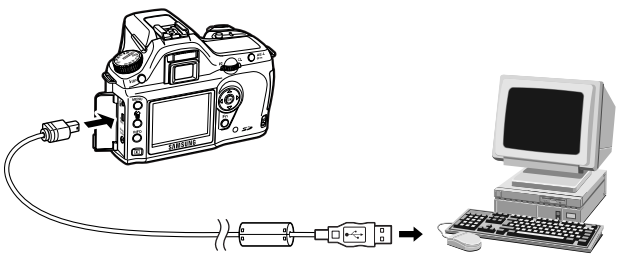
Starting PC mode

- In this mode, you can download stored images to your PC through the USB cable.
- The LCD monitor is always turned off in PC mode.

■ Connecting the camera to a PC

1. Press the MENU button and select the [Set-up] menu.
2. Set [Transfer Mode] on camera to [PC].
3. Connect the PC to the camera with the USB cable.





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Removable Disk

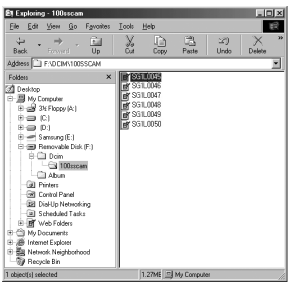
■ Downloading stored images

You can download the still images stored on the camera to your PC's hard disk and print them or use a photo editing software to edit them.

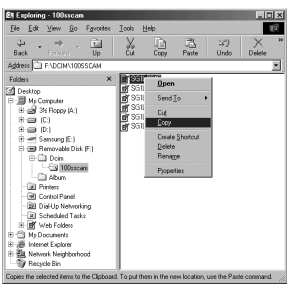
1. Connect the camera to your PC with the USB cable.

2. On your computer's desktop display, select [My Computer] and double click [Removable Disk → DCIM → 100SSCAM].
The image files will then be displayed.

3. Select an image and press the right mouse button.



4. A pop-up menu will open.
Click the [Cut] or [Copy] menu.
- [Cut] : cuts a selected file.
- [Copy] : copies files.



5. Click a folder where you want to paste the file.

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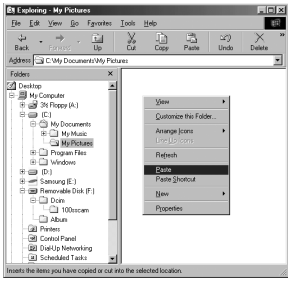
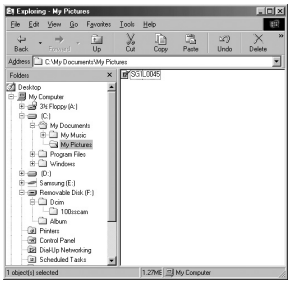
Removable Disk

6. Press the right mouse button and a pop-up menu will open. Click [Paste].



7. An image file is transferred from the camera to your PC.



- By using [Digimax Master], you can see the stored images in the memory directly on the PC monitor and you can copy or move the image files.

CAUTION

- We recommend that you should copy the images to the PC to view them. Opening images directly from the removable disk may be subject to unexpected disconnection.
- When you upload a file that is not taken by this camera to the Removable Disk, the [Camera cannot display this image] message will be displayed on the LCD monitor in the PLAY mode, and [?] message is displayed in THUMBNAIL mode.

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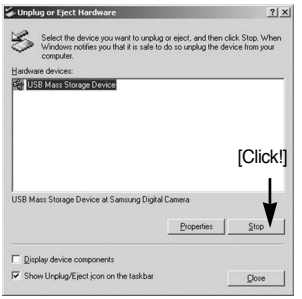
Removing the removable disk

■ Windows 2000/ME/XP
(The illustrations may be different from the real display in accordance with the Windows O/S.)

1. Check whether the camera and PC is transferring a file. If the Card in use lamp blinks, you have to wait until the lamp is turned off.

2. Double-click the [Unplug or Eject Hardware] icon on the task bar.

3. The [Unplug or Eject Hardware] window will open. Select the [USB Mass Storage Device] and click the [Stop] button.


Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
USB Mass Storage Device
[Click!]
USB Mass Storage Device at Samsung Digital Camera
Properties
Stop
Display device components
Show Unplug/Eject icon on the taskbar
Close

4. The [Stop a Hardware device] window will open. Select the [USB Mass Storage Device] and click the [OK] button.

Stop a Hardware device
Confirm devices to be stopped, Choose OK to continue.
Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.
USB Mass Storage Device
Generic volume - (F:)
Samsung DSC USB Device
[Click!]
OK
Cancel

5. A [Safe to Remove Hardware] window will open. Click the [OK] button.

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Removing the removable disk

6. A [Unplug or Eject Hardware] window will open.
   Click the [Close] button and the removable disk will be removed safely.

Unplug or Eject Hardware
Select the device you want to unplug or eject, and then click Stop. When Windows notifies you that it is safe to do so unplug the device from your computer.
Hardware devices:
Properties
Stop
Display device components
Show Unplug/Eject icon on the taskbar
Close
[Click!]

7. Unplug the USB cable.

Setting up the USB Driver for MAC

1. A USB Driver for MAC is not included with the software CD as MAC OS supports the camera driver.
2. Check the MAC OS. This camera is compatible with MAC OS 9.0 or later.
3. Connect the camera to the Macintosh and turn the camera power on.
4. A new icon will be displayed on the desktop after connecting the camera to the MAC.

Using the USB Driver for MAC

1. Double click a new icon on the desktop and the folder in the memory will be displayed.

2. Select an image file and copy or move it to MAC.

CAUTION

- For Mac OS 10.0 or later : First complete uploading from computer to camera and then remove the removable disk with the Extract command.

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Digimax Master

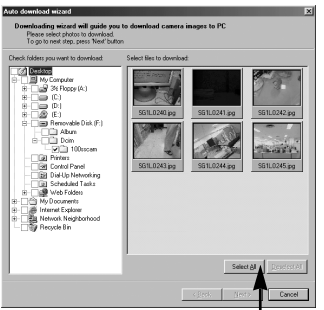
■ You can download, view, edit and save your digital images and movies with this software. This software is only compatible with Windows except for the Windows 98.

■ To start the program, click [Start → Programs → Samsung → Digimax Master → Digimax Master].

● Downloading images

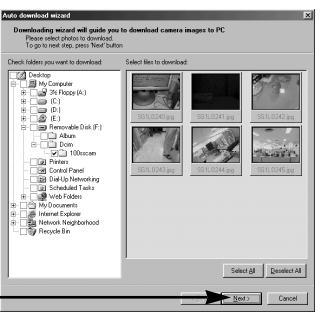
1. Connect the camera to your PC.

2. A window for downloading images will display after connecting the camera and your PC.
   - To download the captured images, select the [Select All(A)] button.
   - Select desired folder in the window and click the [Select All(A)] button. You can save captured images and selected folder.
   - If you click the [Cancel] button, downloading will be cancelled.


Auto download wizard
Downloading wizard will guide you to download camera images to PC
Please select photos to download.
To go to next step, press 'Next' button
Check folders you want to download
Select files to download
Select All
Deselect All
< Back
Next >
Cancel

[Click!]

3. Click [Next(N) >] button.


Auto download wizard
Downloading wizard will guide you to download camera images to PC
Please select photos to download.
To go to next step, press 'Next' button
Check folders you want to download
Select files to download
Select All
Deselect All
< Back
Next >
Cancel

[Click!]

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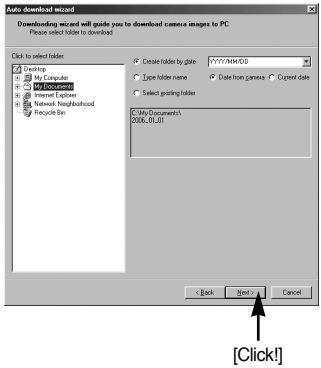
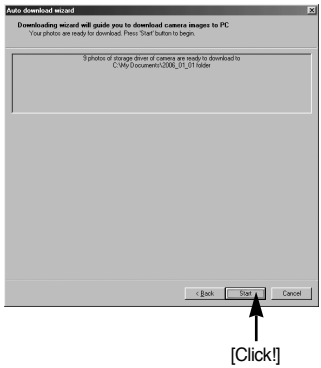
4. Select a destination and make a folder to save downloaded images and folders.
   - Folders will be made in order of date and images will be downloaded.
   - Folder names can be made as you want and images will be downloaded.
   - After selecting a folder that was made before, images will be downloaded.

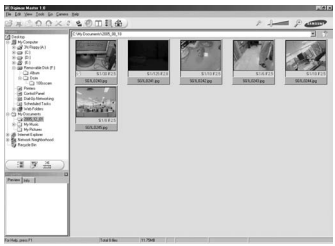


5. Click [Next(N) >] button.

6. A window will open as shown alongside.
   The destination of the selected folder will be displayed on the upper side of the window.
   Click the [Start] button to download the images.


Auto download wizard
Downloading wizard will guide you to download camera images to PC
Your photos are ready for download. Press 'Start' button to begin.
9 photos at storage drives of camera are ready to download to
C:\My Documents\2006_01_01 folder
< Back
Start
Cancel
[Click!]

7. Downloaded images will be displayed.



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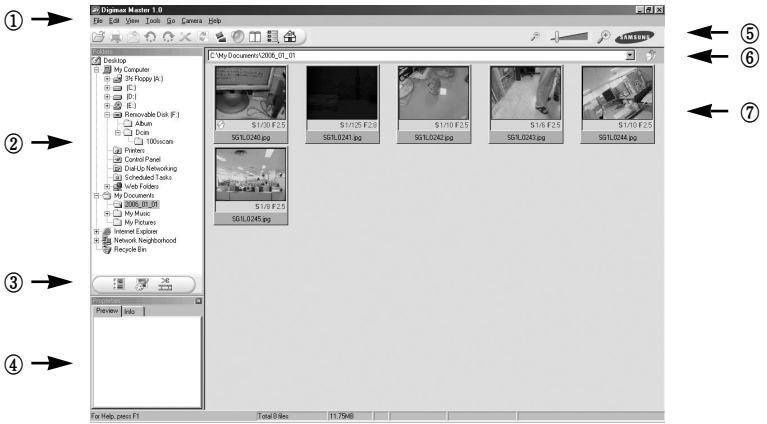
Digimax Master

● Image viewer : You can view the stored images.



- Image viewer functions are listed below.
  ① Menu bar : You can select menus.
  File, Edit, View, Tools, Change functions, Auto download, help, etc.
  ② Image selection window : You can select the desired images in this window.
  ③ Media type selection menu : You can select image viewer, image edit, movie edit functions in this menu.
  ④ Preview window : You can preview a image or a movie clip and check the multi media information.
  ⑤ Zoom bar : You can change preview size.
  ⑥ Folder display window : You can see the folder location of the selected image.
  ⑦ Image display window : Images of the selected folder are displayed.

※ Refer to the [Help] menu in Digimax Master for further information.

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Digimax Master

● Image edit : You can edit the still image.

- Image edit functions are listed below.
  - ① Edit menu : You can select the following menus.
    - [Tools] : You can resize or crop the selected image. See the [Help] menu.
    - [Adjust] : You can modify image quality. See the [Help] menu.
    - [Retouch] : You can change image or insert effects on the image. See the [Help] menu.
  - ② Drawing tools : Tools for editing an image.
  - ③ Image display window : a selected image displays in this window.
  - ④ Preview window : You can preview the changed image.

※ A still image edited with Digimax Master can't be played back on the camera.
※ Refer to the [Help] menu in Digimax Master for further information.

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Digimax Master

● DNG converter : You can convert a RAW (*.pef, *.dng) file into a JPEG or TIFF file format.

- DNG converter functions are listed below.
  ① Histogram display : Histogram of displayed image will be displayed.
  ② Tools : You can edit the RAW (*.pef, *.dng) files as you want
  [White Balance] : You can edit the colour temperature and saturation of the image.
  [Exposure] : You can edit the Exposure value, Contrast and gamma value.
  [Sharpness] : You can edit the Sharpness of the image.
  ③ File format : You can convert the RAW (*.dng) file into a file format as you want (*.jpg, *.tiff).

※ Refer to the [Help] menu in Digimax Master for further information.

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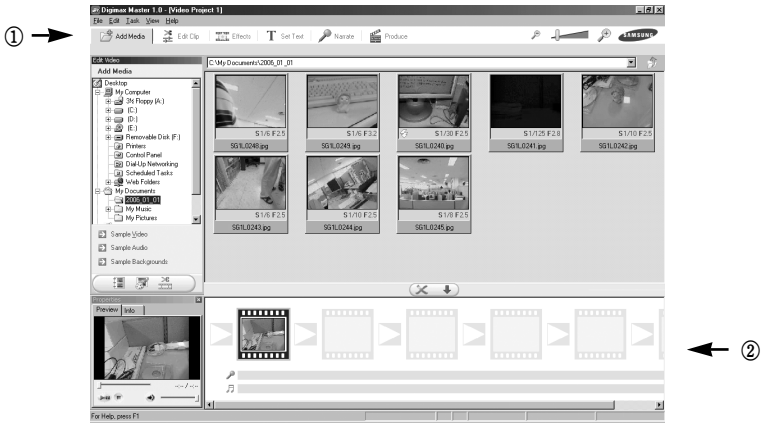
Digimax Master

● Movie edit : You can have still images, movies, narration and music all in one movie file.



- Movie clip edit functions are listed below.
  - ① Edit menu : You can select the following menus.
    - [Add Media] : You can add other media elements to a movie.
    - [Edit Clip] : You can change the brightness, contrast, colour and saturation.
    - [Effects] : You can insert an effect.
    - [Set Text] : You can insert texts.
    - [Narrate] : You can insert a narration.
    - [Produce] : You can save the edited multi media as a new file name. You can select AVI, Windows media (wmv), Windows media (asf) and movie clip for this camera (avi, MPEG-4) file types.
  - ② Frame display window : You can insert multi media in this window.

※ Some movie clips that was compressed with a codec that is not compatible with the Digimax Master can't play back in the Digimax Master.

※ Refer to the [Help] menu in Digimax Master for further information.

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7 Appendix

Explains troubleshooting, introduces optional accessories and provides various resources.

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Default Settings

■ The table below lists the factory default settings.
Table notations are as follows.

● Last Memory Setting

Yes : The current setting (last memory) is saved when the camera is turned off.
No : The setting returns to the default setting when the camera is turned off.

● Reset Setting

Yes : The setting returns to the default setting with the reset function (p.170).
No : The setting is saved even after reset.

● [Rec. Mode] Menu

Item	Default Setting	Last Memory Setting	Reset Setting	Page
Image Tone	(Bright)	Yes	Yes	p.108
Recorded Pixels	6M (3008X2000)	Yes	Yes	p.109
Quality Level	(Best)	Yes	Yes	p.110
Saturation	(0)	Yes	Yes	p.111
Sharpness	(0)	Yes	Yes	p.111
Contrast	(0)	Yes	Yes	p.111
Auto Bracket	±0.5/ 0 - +	Yes	Yes	p.144
AE Metering	(Multi-segment)	Yes	Yes	p.129
Focusing Area	(Wide)	Yes	Yes	p.122
AF Mode	AF.S (Single mode)	Yes	Yes	p.121
Flash Exp. Comp.	0.0	Yes	Yes	p.148

● [Playback] Menu

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Plybk dsply mthd	Display Style	Images only	Yes	Yes	p.158
	Bright Portion	☐ OFF	Yes	Yes	p.169
Instant Review		1 sec	Yes	Yes	p.168
Preview Display	Histogram	☐ OFF	Yes	Yes	p.169
	Bright Portion	☐ OFF	Yes	Yes	p.169
Digital Filter		B&W	Yes	Yes	p.71
Slideshow		3 sec	Yes	Yes	p.69

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Default Settings

● [Set-up] Menu

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Format		-	-	-	p.160
Beep		☑ (On)	Yes	Yes	p.161
Date Adjust		According to default setting	Yes	No	p.161
World Time	World Time setting	☐ (Off)	Yes	Yes	p.162
	Hometown (City)	According to default setting	Yes	No	
	Hometown (DST)	According to default setting	Yes	No	
	Destination (City)	Same as Hometown	Yes	No	
	Destination (DST)	Same as Hometown	Yes	No	
Language		According to default setting	Yes	No	p.165
Guide display		☑ (On)	Yes	Yes	p.165
Brightness Level		0	Yes	Yes	p.166
Video Out		According to default setting	Yes	No	p.166
Transfer Mode		PC	Yes	Yes	p.84
Auto Power Off		1 min	Yes	Yes	p.167
Folder Name		Std.	Yes	Yes	p.167
File #		SerialNo	Yes	Yes	p.168
Sensor Cleaning		-	-	-	p.194
Reset		-	-	-	p.170

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Default Settings

● [C Custom Setting] Menu

Item	Default Setting	Last Memory Setting	Reset Setting	Page
Setting	□ (Off)	Yes	Yes	p.100
Noise Reduction	On	Yes	Yes	p.139
Expsr Setting Steps	1/2 EV Steps	Yes	Yes	p.141
ISO Corction in AUTO	ISO 200-800	Yes	Yes	p.115
ISO Snstvty Wrn Dspl	Off	Yes	Yes	p.116
Link AF Point and AE	Off	Yes	Yes	p.130
Meter Operating Time	10 sec	Yes	Yes	p.131
AE-L with AF locked	Off	Yes	Yes	p.124
Recordable Image No.	Remaining image storage capacity	Yes	Yes	p.100
OK btn when shooting	Off	Yes	Yes	p.100, p.120
AE-L bttn on M expsr	Program Line	Yes	Yes	p.139
AF in remote control	Off	Yes	Yes	p.100
FI with S lens used *1	Not available	Yes	Yes	-
Using aperture ring *2	Prohibited	Yes	Yes	-
Release when Chrging	Off	Yes	Yes	p.149
Preview Method	Digital Preview	Yes	Yes	p.145
Mag to Strt Zm Plybk	1.2 times	Yes	Yes	p.101
Man. WB Measurement	Entire screen	Yes	Yes	p.113
Color Space	sRGB	Yes	Yes	p.117
Reset Custom Fnction*3	-	-	-	p.170

*1 : When the screw mount lens is in use, [FI with S lens used] menu is available.
*2 : When a lens that has aperture ring is in use, [Using aperture ring] menu is available.
*3 : ResetReset settings in [C Custom Setting] menu.

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Default Settings

● Fn Menu

Item	Default Setting	Last Memory Setting	Reset Setting	Page
Drive Mode	(Single frame shooting)	No*1	Yes	p.53
Flash Mode	AUTO (Auto)	Yes	Yes	p.49
White Balance	AWB (Auto)	Yes	Yes	p.112
ISO Sensitivity	AUTO	Yes	Yes	p.115
SCN Mode	Night Scene	Yes	Yes	p.45, 104
DPOF Settings	-	Yes	No	p.79
Digital Filter	B&W	Yes	Yes	p.71
Slideshow	3 sec	Yes	Yes	p.68

*1 : Only continuous shooting settings are saved.

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Cleaning the CCD

■ Shadows may appear in the image for white backgrounds and other shooting conditions if the CCD becomes dirty or dusty. This indicates that the CCD must be cleaned. Please contact Samsung Camera service center for professional cleaning because the CCD is a precision part.

INFORMATION

- Do not use a spray type blower.
- Do not clean the CCD when the exposure mode is set to B (Bulb) mode.
- Always cap the lens mount area to prevent dirt and dust from accumulating on the CCD when no lens is on the camera.
- It is recommended to use the AC adapter (D-AC10, optional) when cleaning the CCD.
- When the battery level is low, [Not enough battery remaining to clean sensor] is displayed on the LCD monitor.
- If you are not using the AC adapter, please use batteries with ample capacity remaining.
  A warning beep will sound if the battery capacity becomes low during cleaning. Please stop cleaning immediately.
- Do not put the tip of the blower inside the lens mount area. If the power is turned off, this could cause damage to the shutter or the CCD sensor.
- The self-timer lamp blinks and [Cln] appears on the LCD panel while cleaning the CCD.

1. Turn the camera off and remove the lens.

2. Turn the camera on.

3. Select [Sensor Cleaning] on the [Set-up] menu.

4. Press the four-way controller (▶).
   - The Sensor Cleaning screen appears.

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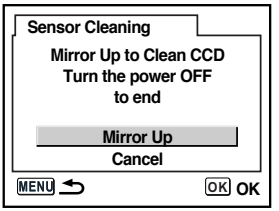
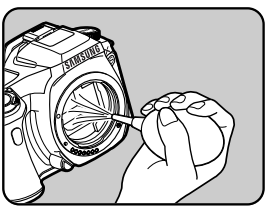
Cleaning the CCD

5. Use the four-way controller (▲) to select [Mirror Up].



6. Press the OK button.
   - The mirror is locked in the up position.

7. Clean the CCD.
   - Use a brush-less blower to remove dirt and dust from the CCD. Using a blower with a brush may scratch the CCD. Do not wipe the CCD with a cloth.



8. Turn the camera off.

9. Attach the lens after the mirror returns to its original position.

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Optional Accessories

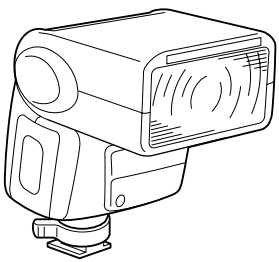
■ A number of dedicated accessories are available for this camera. Please contact a service center for details regarding accessories. Accessories for PENTAX DSLR can be used with SAMSUNG DSLR.

Cable Switch SSR-D1

● This is a remote shutter release cord. The cord length is 0.5 m.

Flash Accessories

● Auto Flash SEF-36PZF
This is an auto flash unit with a maximum guide number of 36 (ISO 100/m). Its features include slave-sync flash, contrast-control-sync flash, AF spot beam, high-speed sync, wireless flash and front/rear curtain-sync.



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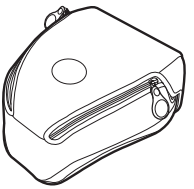
Optional Accessories

Camera Case

- Camera Case SCP-D1

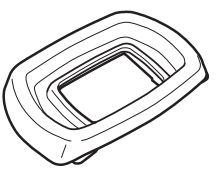


Others

- The accessories below are the same as the accessories that are packaged with the camera.

- Viewfinder cap

- Eyecup



- Strap

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Error Messages

Error Message	Description
Memory card full	The SD Memory Card is full and no more images can be saved. Insert a new SD Memory Card or delete unwanted images. (p.27, 73) You may be able to save new images by changing the quality level or recorded pixels. (p.109, 110)
No image	There are no images for playback on the SD Memory Card.
Camera cannot display this image	You are trying to play back an image in a format not supported by this camera. You may be able to play it back on another brand of camera or your computer.
No card in camera	The SD Memory Card is not inserted in the camera. (p.27)
Memory card error	The SD Memory Card has a problem, and image capture and playback are impossible. It may be viewable on a PC but not the camera.
Card not formatted	The SD Memory Card you have inserted is unformatted or has been formatted on a computer or other device and is not compatible with this camera. Use after formatting with the camera.
Card locked	A locked SD Memory Card is inserted in the camera. Unlock the SD Memory Card. (p.28)
Card is locked Rotation information cannot be saved	
This image is protected Rotation information cannot be saved	The selected rotated image is protected. Remove protection from the image.
Cannot use this card	The inserted card cannot be used on a camera. Insert a usable card.
Battery depleted	The batteries are exhausted. Install new batteries in the camera. (p.23)
Not enough battery remaining to clean sensor	Appears during CCD cleaning if battery set level is insufficient. Replace the battery set with a new one or use an AC adaptor (D-AC10, optional). (p.26)

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Error Messages

Error Message	Description
Image folder could not be created	The maximum folder number (999) and file number (9999) are being used, and no more images can be saved. Insert a new SD Memory Card or format the card. (p.160)
The image is not stored	The image could not be saved because of an SD Memory Card error.
Settings not stored	The DPOF settings file could not be saved because SD Memory Card is full. Delete unwanted images and set DPOF again. (p.73)
RAW images cannot be set	DPOF cannot be applied to the RAW images.
RAW images are not supported	RAW images cannot be processed using the digital filter.
No image to be filtered	When digital filter is started from [▶ Playback] menu, this message appears if all saved images are RAW files or images captured with other cameras.
This image cannot be filtered	Appears when digital filter is started from Fn menu for images captured with other cameras.
No DPOF files	No file set with DPOF. Set DPOF and print. (p.79)
Printer error	There is an error with the printer and the file cannot be printed. Fix error and print.
No paper in a printer	Printer has run out of paper. Put paper in printer and print.
No ink in a printer	Printer has run out of ink. Replace ink and print.
Paper stuck in a printer	Paper is jammed in printer. Remove paper and print.
Data error	A data error has occurred during printing.

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Troubleshooting

We recommend checking the following items before contacting a service center.

Problem	Cause	Remedy
Camera does not turn on	Batteries are not installed	Check if batteries are installed. If not, install batteries.
	Batteries are not installed properly	Check orientation of batteries. Re-insert batteries according to the ⊕⊖ symbols. (p.23)
	Battery power is low	Replace with a charged battery set or use the AC adapter (D-AC10, optional). (p.26)
The shutter does not release	Flash is charging	Wait until charging is finished.
	No available space on SD Memory Card	Insert SD Memory Card with available space or delete unwanted images. (p.27, 73)
	Recording	Wait until recording is finished.
The Autofocus does not work	Subject is difficult to focus on	Autofocus cannot focus well on subjects that have low contrast (the sky, white walls), dark colors, intricate designs, are moving quickly or scenery shot through a window or a net-like pattern. Lock focus on another object located at same distance (press shutter release button halfway), then aim at target and press shutter release button fully. Alternatively, use manual focus. (p.125)
	Subject is not in focusing area	Position subject in focus frame in middle of viewfinder. If the subject is outside thefocusing area, aim the camera at the subject and lock the focus (press shutter release button halfway), then compose picture and press the shutter release button fully.
	Subject is too close	Move away from the subject and take a picture.
	The focus mode is set to MF	Set the focus mode lever to AF. (p.118)
	The focus mode is set to AF.C (Continuous mode)	Set the focus mode to AF.S (Single mode). (p.121)
	The capture mode isset to (Moving Object) mode	Set the capture mode to setting other than (Moving Object) mode. (p.45)

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Troubleshooting

Problem	Cause	Remedy
AE lock function does not operate	AE lock is not available when set to **M** (Manual) mode or **B** (Bulb) mode	Use AE lock with any setting other than **M** (Manual) mode or **B** (Bulb) mode.
Built-in Flash does not discharge	When flash mode is set to [Auto discharge] or [Auto flash+Redeye reduct], the flash will not discharge if the subject is bright	Set flash mode to [Manual discharge] or [Manl flash+Redeye reduct]. (p.49)
	Mode dial is set to (Flash OFF)	Set mode dial to any setting other than (Flash OFF). (p.45)
	SCN (Scene) mode is set to (Night Scene), (Sunset), (Candlelight) or (Museum)	Set **SCN** mode to any setting other than (Night Scene), (Sunset), (Candlelight) or (Museum). (p.47)
The power zoom system does not function	The camera does not have the power zoom function	Use manual zoom. (p.48)
USB connection with computer does not work properly*	The transfer mode is set to [PictBridge]	Set transfer mode to [PC].
	An error occurred while sending USB data	Change the transfer mode to [PC-F].
USB connection with printer does not work properly	The transfer mode is set to [PC] or [PC-F]	Set transfer mode to [PictBridge]. (p.84)

* In rare cases, the camera may not operate correctly due to static electricity. This can be remedied by taking the batteries out and putting them back in again. When the mirror remains in the up position, take the batteries out and put them back in again. Then, turn the power on. The mirror will retract. After the procedure is done, if the camera operates correctly, it does not require any repairs.

* Refer to the software instructions for details on connecting the camera to a PC. (p.173)

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Troubleshooting

■ Please check the following if the USB connection malfunctions.

[Case 1] The USB cable is not connected or you are using a cable with an incorrect specification.
→ Use a USB cable with the correct specification.

[Case 2] The camera is not recognized by your PC. Sometimes, the camera may appear under [Unknown Devices] in Device Manager.
→ Turn off the camera, remove the USB cable, plug in the USB cable again, and then turn on the camera.

[Case 3] There is an unexpected error during file transfer
→ Turn the camera power off and on again. Transfer the file again.

[Case 4] When using the USB hub.
→ There may be a problem in connecting the camera to the PC through the USB hub if the PC and the hub are not compatible. Wherever possible, connect the camera to the PC directly.

[Case 5] Are other USB cables connected to the PC?
→ The camera may malfunction when it is connected to the PC at the same time as another USB cable. In this case, disconnect the other USB cable, and connect only one USB cable to the camera.

[Case 6] When I open the Device Manager (by clicking Start → (Settings) → Control Panel → (Performance and Maintenance) → System → (Hardware) → Device Manager), there are「Unknown Devices」or「Other Devices」entries with a yellow question mark (?) beside them or devices with an exclamation mark (!) beside them.
→ Right-click on the entry with the question (?) or exclamation (!) mark and select "Remove". Restart the PC and connect the camera the again. For Windows 98 PC, remove the camera driver also, restart the PC, and then reinstall the camera driver.

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[Case 7] In some security programs (Norton Anti Virus, V3, etc.), the computer may not recognise the camera as a removable disk.

→ Stop the security programs and connect the camera to the computer. Refer to the security program instructions about how to stop the program.

[Case 8] If a PC connected with the camera stops responding while Windows is starting.

→ In this case, disconnect the PC and the camera and Windows will start.
If the problem happens continuously, set the Legacy USB Support to disable and re-start the PC. The Legacy USB Support is in the BIOS setup menu (The BIOS setup menu differs from the PC manufacturers and some BIOS menus don't have Legacy USB Support). If you can't change the menu by yourself, contact to the PC manufacturer or BIOS manufacturer.

[Case 9] The camera is connected to the USB port located on the front of the computer.

→ When the camera is connected to the USB port located on the front of the computer, the computer may not recognise the camera.
Connect the camera to the USB port located on the back of the computer.

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Main Specifications

Image Sensor	Type	23.5mm x 15.7mm CCD
	Effective Pixel	Approx. 6.1 Mega-pixel
	Total Pixel	Approx. 6.3 Mega-pixel
Lens	Mount	PENTAX KAF bayonet mount
	Usable Lens	Schneider D-XENON Lens * All PENTAX DSLR lenses are available. * KAF2 (not power zoom compatible), KAF mount lenses, KA mount lenses
Viewfinder	Type	Pentamirror, Natural-Bright-Matte Focusing Screen
	Field of View	96%
	Magnification	0.85X (50mm F1.4 lens · ∞)
	Diopter Adjustment	-2.5m^{-1} ~ 1.5m^{-1}
	LCD Monitor	Low-temperature polysilicon TFT color LCD monitor 2.5" (approximately 210,000 dots)
Focusing	Type	TTL phase-matching 5-points wide AF
	Modes	AF Single (with focus lock), Manual focus, Continuous AF
Shutter	Type	Electronically controlled vertical-run focal plane shutter
	Speed	30 ~ 1/4,000 sec. with Bulb
Exposure Control	Metering System	TTL open-aperture 16-segment (coupled with lens and AF information) Metering : Multi, Center-weighted, Spot
	Compensation	±2 (1/3EV or 1/2EV steps)
	ISO Equivalent	Auto, 200, 400, 800, 1600, 3200
Flash	Type	Built-in retractable P-TTL auto pop-up flash
	Modes	Auto, Manual, Auto/Red-eye reduction, Manual/Red-eye reduction
	Guide Number	15.6 (at ISO 200)
	Angle of View Coverage	28mm wide-angle (equivalent to 35mm)
	Sync. Speed	1/180 sec.
	Recharging Time	Approx. 3 sec.
	External Flash	SEF-36PZF SAMSUNG dedicated flash (optional)
White Balance		Auto, Daylight, Shade, Cloudy, Tungsten, Fluorescent (W, D, N), Flash, Manual
Shooting	Modes	Program AE, Shutter, Priority AE, Aperture Priority AE, Manual, Bulb AUTO SCN, Portrait, Landscape, Macro, Moving Object, Night Scene Portrait, Flash off SCN Mode : Night Scene, Surf & Snow, Text, Sunset, Kids, Pet, Candlelight, Museum
	Drive Modes	Single, Continuous, Auto Bracket
	Continuous	2.8 fps up to 5 frames (JPEG), 3 frames (RAW)

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Main Specifications

Self-timer		2 sec., 12 sec., Remote control, Remote control 3 sec
Storage	Media	SD Card (up to 1GB guaranteed)
	File Format	RAW(PEF), JPEG(DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0
	Image Size	6M : 3008x2008 pixels (RAW) 6M : 3008x2000 pixels 4M : 2400x1600 pixels 1.5M : 1536x1024 pixels
	Capacity (128MB)	6M : RAW 11 Super Fine 35 Fine 70 Normal 117 4M : - Super Fine 51 Fine 96 Normal 159 1.5M : - Super Fine 105 Fine 171 Normal 267 ※ These figures are measured under Samsung' s standard conditions and may vary depending on shooting conditions and camera settings.
Image Play	Type	Single image, Thumbnails, Slide show
	Editing	Rotate, Digital Filter
	Digital Filter	B&W, Sepia, Soft, Slim, Brightness
Interface		Digital Output Connector : USB 2.0 (HI-SPEED) Video Output : NTSC, PAL (user selectable) DC Power Input Connector : DC 6.5V, 3.0A
Power Source		4xAA Alkaline, Lithium, Ni-MH, 2 x CR-V3 (Lithium) batteries
Dimensions (WxHxD)		125x92.5x67mm (excluding the projecting parts of the camera)
Weight		470g (without batteries and card)
Operating Temperature		0 ~ 40°C
Operating Humidity		5 ~ 85%
Software	Camera Driver	Storage Driver (Windows 2000/ME/XP, Mac OS 9.0 or later)
	Application	Digimax Master

* Specifications are subject to change without prior notice.
* All trademarks are the property of their respective owners.
* Accessories for PENTAX DSLR can be used with SAMSUNG DSLR.

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Glossary

AdobeRGB

Color space recommended by Adobe Systems, Inc. for commercial printing. Wider range of color reproduction than sRGB. Covers most of the color range so colors only available when printed are not lost when editing images from a computer. When image is opened by non-compatible software, the colors look lighter.

AE Metering

Brightness of subject is measured to determine exposure. In this camera, select from [Multi-segment Metering], [Center-weighted Metering] and [Spot Metering].

Aperture

The aperture increases or reduces the light beam (thickness) that passes through the lens.

Auto Bracket

For automatically changing the shooting conditions. When the shutter button is pressed, three images are shot. The first one has no compensation, the second is under-exposed and the third is over-exposed.

Bright Portion

Over exposed area in the image loses contrast and appears white.

Camera Shake (Blur)

When the camera moves while the shutter is open, the entire image appears as if flowing. This occurs more often when shutter speed is low.
Prevent camera shake by raising the sensitivity, using the flash, and raising the shutter speed. Alternatively, use a tripod to stabilize the camera. Because camera motion causes camera shake, use the self-timer, the remote control unit, and the cable switch to prevent.

CCD (Charge Coupled Devices)

Photography element which converts the light entering through the lens into electric signals.

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Color space

A defined range of colors from the spectrum which are used. In digital cameras, [sRGB] is defined as the standard by Exif. In this camera, [AdobeRGB] is also used because of the richer color expression over sRGB.

Color Temperature

This numerically expresses the color of the light source illuminating the subject. This is indicated in absolute temperature, using Kelvin (K) units.
The color of light shifts to a bluish color as the color temperature rises, and to a reddish color as the color temperature falls.

DCF (Design Rule for Camera File System)

A digital camera file system standard established by the Japan Electronics and Information Technology Industries Association (JEITA).

Depth of Field

Area of focus. This depends on the aperture, lens focal length, and distance to the subject. For example, select a smaller aperture to increase the depth of field or use a larger aperture to decrease the depth of field.

DPOF (Digital Print Order Format)

Rules for writing information onto a card with recorded images regarding the specific images and number of copies to be printed. Prints can easily be made by taking images to a DPOF photo printing store.

EV (Exposure Value)

Exposure Value is determined by the combination of the aperture value and the shutter speed.

EV Compensation

Process of adjusting the image brightness by changing the shutter speed and aperture value.

Exif (Exchangeable image file format for digital still camera)

A standard digital camera file format established by the Japan Electronics and Information Technology Industries Association (JEITA).

Focus point

Position in the viewfinder that determines focus.

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Histogram

A graph that shows the darkest and brightest points in an image. The horizontal axis represents the brightness and the vertical axis represents the number of pixels. This is useful when you wish to refer to the exposure status of an image.

JPEG

An image compression method. The image is recorded in JPEG format when the quality level is set to (Best), (Better), or (Good). Images recorded in JPEG format are suited for viewing on your PC or for attaching to e-mail.

ND (Neutral Density) Filter

A filter with many saturation levels that adjusts the brightness without affecting the picture itself.

Noise Reduction

Process to reduce noise (image roughness or unevenness) caused by low shutter speed.

NTSC/ PAL

These are video output formats. NTSC is mainly used in Japan, North America, and South Korea. PAL is mainly used in Europe and in China.

Quality Level

This refers to the image compression ratio. The lower the compression, the more detailed the image. The image becomes rougher as the compression rate rises.

RAW data

Unedited image data output from the CCD. RAW data is data before being internally processed by the camera. Add settings that are added before shooting in other file formats (such as White Balance, Contrast, Saturation and Sharpness) individually frame by frame after shooting.
In addition, RAW data is 12-bit data that contains 16 times the information of 8-bit JPEG and TIFF data. Rich gradations are possible. Transfer RAW data to your computer and use the provided software to create image data with different settings, such as JPEG or TIFF.

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Recorded Pixels

Indicates the size of the image by the number of pixels. The more pixels that compose a picture, the larger the image size.

Sensitivity

The degree of light. With a high sensitivity, images can be shot with a high shutter speed even in dark places, reducing camera shake.
However, images with high sensitivity are more susceptible to noise.

Shutter Speed

The length of time that the shutter is open and light strikes the CCD. The amount of light that strikes the CCD can be changed by altering the shutter speed.

sRGB (standard RGB)

International standard of color space established by the IEC (International Electrotechnical Commission). This is defined from color space for PC monitors and is also used as the standard color space for Exif.

Vignetting

Vignetting occurs when corners of pictures are blackened because the subject was blocked by the hood or filter or the flash was blocked.

White Balance

While shooting, color temperature is adjusted to match the light source so that the subject appears to have correct color.

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  - Use a different socket away from the affected device.
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